je Kining Journal,

RAILWAY

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1337.—Vol. XXXI.

LONDON, SATURDAY, APRIL 6, 1861.

STAMPED.....SIXPENCE. UNSTAMPED..FIVEPENCE.

R. JAMES CROFTS, SHAREBROKER No. 1, FINCH LANE, CORNHILL. (Established 17 years.)

MR. JAMES LANE. NO. 44, THREADNÉEDLE STREET,

JAMES LANE HAS FOR SALE, at nett prices:—20 Alfred Consols, £218s.; 10 Ashburton United, £144; 25 Arthur, 5s. 3d.; 20 Bottle Hill, 24s.; 20 Buller and Basset, 10s.; 10 Bickleigh Vale (£1 paid, Limited), 6s.; 20 Budnick, 22s.; 10 Crowlwm, 12s.; 5 Cargoll, £174; 20 East Devon, 32s. 6d.; 25 East Budnick, 29s.; 10 Growlwm, 12s.; 5 Cargoll, £174; 20 East Devon, 32s. 6d.; 25 East Budnick, 29s. 6d.; 10 Great Wheal Fortune, £34; 10 Hingston Down, £24; 20 Mount Pleasant; 5 North Treskerby; 2 North Eoskear, £28; 20 North Providence, 22s. 6d.; 20 North Downs, £44; 25 Now Tre-leigh, 42s. 6d.; 20 Creat Great Wheal Fortune, £34; 10 Hingston Down, £24; 25 Mount Pleasant; 5 North Treskerby; 2 North Eoskear, £28; 20 North Providence, 22s. 6d.; 20 North Downs, £44; 25 Now Tre-leigh, 42s. 6d.; 20 Creat Great Wheal Fortune, £174; 30 Weal Orthodox, £17; 30 Vale of Towy, 9s.; 5 Mary Ann, £17; 20 Wheal Wrey, 9s.; 20 Unity, 9s.; 10 Yarnaf.

PETER WATSON, ENGLISH AND FOREIGN STOCK, SHARE, AND MINING OFFICES.

Orders to Buy or Sell Mine Shares by letter or telegraph punctually attended to.

EPRESSION IN MINE SHARES.—During the past six or seven months there has been a serious and general depression in all mines, equal

seven months there has been a serious and general depression in all mines, equi on an average to nearly 50 per cent. For safe investment, and for a great rise, there fore, Peter Watson is prepared to recommend six dividend and six progressive mine which from the present position and future prospects, he feels confidence in recommending to those who may favour him with their confidence and business. The present depression is like that of 1847, 1857, and 1858, and in the course of two or three month the mining market will, no doubt, become buoyant again.

LELEAN, STOCK AND SHAREDEALER, 4, CUSHION COURT, OLD BROAD STREET, LONDON, E.C. 4 R. LELEAN,

INE SRARES FOR SALE:-20 Tamar Consols, £2 1s. 3d.; M 1N E SKAKES FUR SALE:—20 1 amar Consols, £2 1s. 3d.;
100 South Condurrow, 16s. 9d.; 2 Providence, £37½; 2 St. Ives, £38; 5 Stray Park, £36½; 2 West Caradon; 10 East Caradon, £19½; 10 North Robert, 18s.; 100 East Providence, 7s. 6d.; 66 Huckworthy Bridge, 7s. 6d.; 6 Par Consols, £2; 10 Aired Consols, £23½; 50 West Condurrow; 15 Nantees and Penrhiw; 20 Vale of Ffrith, £1½; 5 Wheal Hearle; 5 Margery; 5 Trelyon; 2 Margaret; 5 North Treskerby; 20 Great Betallsek; 50 Unity; 20 Dale; 10 East Russell.

Mr. Lelean, 4, Cushion-court, Old Broad-street, E.C., April 5, 1861.

TO BE SOLD, to cover an advance, the following SHARES in DIVIDEND and good PROGRESSIVE MINES at the following lowest prices,

DIVIDEND and cash:—
1 Basset, £100.
2 Grambler, £19. Cash:— (100. 6 Kitty (Lelant), £11. 3 Trelyon, £12½.
2 Grambler, £19. 25 North Robert, 18s. 6d. 25 Unity, 8s. 6d.
5 Wheat Hearie, £8½. 5 Trencrom, £3. 1 Seton, £84.
April 5, 1861. Apply to John Wm. Hutchinson, 78, Old Broad-street, E.C.

| R. T. ROSEWARNE, 81, OLD | BROAD STREET, LONDON, E.C., has BUSINESS to TRANSACT in the following SHARES:—
| Bedford Consols, 4s, 6d. | 100 North Robert, 19s. | 50 No. Wh. Trelawny, 5s. | 50 No. Wh. Trelawny, 5s. | 50 West Rose Down, £12. | 220 Pelyn Wood, 2s, 6d. | 60 Sortridge, 11s, 6d. | 50 Stray Park, £364, | 20 Wheal Mottle, £354, | 25 Wheal Crober, 12s, 3d. | 50 Gawton, 5s, 9d. | 200 Wheal Arthur, 4s, 9d. | 200 Wheal Mottle, 40s. | 200 Bankers: Bank of London.

E. GOMPERS, MINING OFFICES, CROWN CHAMBERS, THREADNEEDLE STREET, LONDON, E.C. SS TRANSACTED in BRITISH and FOREIGN STOCKS and SHARES. Forms, 14, per cent.

Bankers: London and Westminster Bank

MR. J. S. PHILLIPS, C.E., SHAREBROKER, &c., 12, ST. MICHAEL'S ALLEY, CORNHILL, LONDON, E.C.

MR. GEORGE BATTERS, 5, COWPER'S COURT, BIRCHIN LANE, DEALER IN BRITISH MINING SHARES AND OTHER STOCKS. Mr. BATTERS, from long experience and intimate acquaintance with all Mining Stocks, can advise as to investment of capital, at the closest market prices, and has made a selection from the mines of North Wales likely to be largely profitable in respect of dividends, and with great prospects of advance in market value. Full particulars from personal inspection can be had on application.

Mr. BATTERS is a BUYER or SELLER in Bryn Gwiog, Herward, West Bryn Gwiog, Brynford, North Minera, Billius, and Silver Rake, &c. at close market prices; and is a BUYER of any number of West Bryn Gwiog shares at £35 per share; 50 North Minera, 26s.; 100 Great Martha, 18s.; 5 Billius, £21; and 2 Silver Rake, £3.

liver Rake, £19.

Mr. BATTENS for some time past has been studying the North Wales lead mining discict, and periodically inspects its most important mines, and is at all times in corresponence with the most intelligent agents in the counties of Flint and Denbigh, and will be appy to advise with his correspondents as to investments in these important districts.

OHN GLEDHILL AND CO., MINE AGENTS AND SHAREBROKERS, MINING OFFICES, CORN EXCHANGE, LEEDS. / 2

R. GEORGE BUDGE, 4, ROYAL EXCHANGE-BUILDINGS, MR. GEORGE BUDGE, 4, ROYAL EXCHANGE-BULLDINGS, LONDON, has FOR SALE:—10 Great South Tolgus, £7½; 10 East Caradon, £20; 50 Wheal Unity, 10s.; 30 Cefn Cilcen, 9s.; 5 North Treskerby; 35 Angarrack, 3s.; 50 Millpool, 17s. 6d.; 50 South Condurrow, 19s.; 40 South Buller and West Penstruthal, 6s.; 50 Nanty-Jago; 20 Noragles; 100 Dale, 12s. 6d.; 100 Drake Walls, 19s.; 2 East Bassei; 50 Worvas Downs; 50 Wheal Grijls, £3½; 19 Wheal Crebor, 12s.; 20 Treloweth; 100 North Wheal Providence; 20 Rosewall Hill and Ransom, £3; 100 North Minera, 38s.; 20 North Basset, £6; 50 Great Retallack, 29s.; 100 Gernick, 8s.; 5 West Bryn Gwiog; 50 Merilyn; 5 South Bryn Gwiog; 5 Caradon Consols, £9½; 100 East Cassewarne; 50 Great Caradon, 15s.; 75 Great Alfred, 20s.; 3 Heredsford, £9; 30 Lewis, 10s.; 50 Lady Bertha, 22s.; 4 Trelawny, £13; 50 Wheal Sidney, £1; 2 South Wheal Frances, £150; 50 East Great Wheal Frances, £150; 50 East Great Wheal Frances, £150; 50 East Great Wheal Martha, 19s.; 2 West Caradon, £9; 10 Wheal Mearle; 25 Buller and Basset; 5 Wheal Damsel; 100 Wheal Arthur, 6s.; 50 Wheal Moyle, £2. ½

LONDON MINE AGENCY (ESTABLISHED 1848)

PEMOVAL.—MR. PEET'S MINE AGENCY is REMOVED to 62, MOORGATE STREET, LONDON, where information may be had upon all mines, British or foreign.

Office of reference to mines. Reports furnished from competent and confidential agents.

Note.—A few gentlemen may now join in the purchase of a mine, with great chances of a successful return for small outlay.

Mr. Pear calls attention to the Silver Bank Mines, as a valuable property, and will furnish particulars on application. These shares will soon be at a high premium upon the merits of the mines, tested by sales of ore.

62, Moorgate-street, London, February, 1861.

FIFTEEN to TWENTY, and even TWENTY-FIVE PER CENT. PER ANNUM upon current value of shares, in CORNISH TIN and COPPER MINES.

upon current value of shares, in CORNISH TIN and COPPER MINES.
Dividends payable two-monthly or quarterly.

MESSRS. TREDINNICK AND CO., MINING ENGINEERS,
SEED their SELECTED LIST OF SOUND PROGRESSIVE AND DIVIDEND SHARES upon the receipt of a Fee of One Guinea.
Review of Cornish and Devon Mining Enterprise, 5s. per copy.
Maps per post of the Buller and Basset, Great Vor, Alfred Consols, the Providence and
Margaret Districts, 2s. 6d. each.
Cornish Mines, well selected, pay better than any other description of securities, are
freer from risks, and entail less responsibilities than banks and other joint-stock companies. Shares bought and sold on commission of 2½ per cont.
Money advanced at 10 per cent. annually, for short or long periods, upon approved
Mining Shares.—78, Lombard-street, London, E.O.

SECURE INVESTMENTS.—Capitalists will find British Mines
pay the largest profit of all known securities. To invest £1000 in Consols, railway
debentures, or bank shares, the largest amount receivable is £60 per annum, whereas the
former yields an income of at least £150. Progressive Mines, judiciously selected, frequently advance from 100 to 500 per cent., and free from risk.
Massns. FULLER AND CO., 8, MOORGATE STREET, LONDON, are in daily
communication with agents of the principal mines in the kingdom, and are in a position
to advise as to the merits of each class of property.

BANKS, RAILWAYS, INSURANCE, and every description of Stock Exchange business transacted. Telegraph messages promptly attended to.

A faw SHARES FOR SALE in Dolcoath United and West South Caradon.

G E O R G E M O O R E

1, CROWN COURT, THREADNEEDLE STREET.

PURCHASERS of undoubted respectability can register transfers and receive CERTIFIGATES of same previous to PAYMENT.

In any business that Groncz Moore is favoured with, in which he is the buyer, he
will give CASH ON RECEIPT OF TRANSFER. PURCHASES FICATES of san

M. R. JOHN B. REYNOLDS, MINING OFFICES, 1, WINCHESTER HOUSE, OLD BROAD STREET, LONDON, E.C., has business in Bryn Gwiog, Cargoli, East Grenville, North Frances, North Downs, Retallack, Wheal Unity, Dale, North Roskear, North Crofty, Eottle Hill, So. Condurow, &

JAMES HERRON has FOR SALE the following SHARES, at the prices quoted, and FREE OF COMMISSION:—

5 Angarrack, 4s. 9d. 1 Herward, £20\forall_s. 5 Ashburton United. 5 Hings. Down, £2 128-64. 10 Aifred Cons., £2 186-64. 20 Anglo Mexican Mint, £13 15s. 20 Bryn ford Hall. 50 Lady Bertha, 19s. 9d. 20 East Grenville, \$0 North Sincer, £2 28-64. 1 Biglier, £128\forall_s. 20 Butlier and Bertha (tast call paid). 2 North Frances, £4\forall_s. 20 Butlier and Bertha (tast call paid). 2 North Frances, £4\forall_s. 20 North Sincer, £2 28-64. 1 Carp Brea, £200. 2 North Sincer, £2 20. 2 North Sincer, £2 20. 2 Treloweth, £3 10s. 2 North Sincer, £2 20. 2 Treloweth, £3 10s. 2 North Sincer, £2 20. 2 Treloweth, £3 10s. 2 North Sincer, £2 20. 2 Treloweth, £3 10s. 2 North Sincer, £4\forall_s. 20 North Miners (19s. pd.) 1 Treloweth, £3 10s. 2 North Sincer, £2 20. 2 Treloweth, £3 10s. 2 North Sincer, £4\forall_s. 20 North Sincer, £5\forall_s. 20 North Sincer, £5\forall_s. 20 North Sincer, £5\forall_s. 20 North Sincer, £4\forall_s. 20 North Sincer, £4\forall_s. 20 North Sincer, £5\forall_s. 20 Nort

20 Buller and Bertha (last call paid).

1 Buller, £1234.
1 Carp Brea, £90.
10 Cobre, £394.
1 Copper Hill.
5 North Roskear, £20½.
2 North Roskear, £20½.
3 North Crofty, £7½.
4 No. Basset, £3½.
5 North Crofty, £7½.
5 Nort MESSRS. VIVIAN AND REYNOLDS, 68, OLD BROAD STREET, LONDON, E.C., MINING ENGINEERS, INSPECTORS OF MINES COMMISSION, and GENERAL AGENTS for the PURCHASE OF SALE OF MINE SHARES, RAILWAY, and EVERY OTHER DESCRIPTION of STOCK.

Commission on share transactions, 1½ per cent. on £100 and above, and 2½ per cent. on £100 and above, and 2½ per cent.

M. C. POWELL, MINE SHAREBROKER,
2, SPREAD EAGLE COURT, FINCH LANE, LONDON, E.C.
C. POWELL informs his friends and the public that the situation of his office (adjoining the Mining Exchange) enables him to act promptly on all orders confided to him, either by post or telegraph; and begs to assure those who may favour him with business on commission, or at nett prices, that his best endeavours shall be used for their interest.

Office hours: 10 till 5. Commission, 13/6 per cent.

April 5, 1861.

E DWARD COOKE, 5, HERCULES PASSAGE, THREAD DWARD COOKE, 5, HERCULES PASSAGE, THRE

NEEDLE STREET, selicits a continuance of the patronage of the publi
assures them that be is in a position to do business on commission, or nett prices,
of the mines usually dealt in on the most favourable terms with regard to their int
All orders entrusted to his care will have prompt attention.

FOR SALE, at nest prices:

FOR SALE, at nest prices:

50 Pedn-an-dres, 15s.

52 Great Redallack, 21s.

52 Great Redallack, 21s.

53 Great Redallack, 21s.

54 South Carras.

55 Gurlyn, 5s.

56 Gurlyn, 5s.

57 Great Redallack, 22s.

58 Ornak Walls, 15s.

59 Cornal Kalls, 5s.

10 Wheal Moyle, 21

90 Wheal Wrey Con

1 South Frances, 22

90 Wheal Woyle, 21

90 Wheal Moyle, 21

90 Wheal Buller, 25

91 Wheal Buller, 25

10 Wheal Buller, 25

10 Wheal Six postage stamps.

6 Tolcarne, £2 10s.
2 So. Bryn Gwiog, £20.
15 Wheal Grenville, £2%,
50 Wheal Wrey Cons., 14
1 South Frances, £150.
20 Wheal Moyle, £1 19s.
1 Wheal Buller, £18%. 25 Drake Walls, 15s. 20 Gernick, 4s. 15 Wheal Moyle, £1 19s. 15 Wh. Henrietta, £2½. 1 Wheal Buller, £119s. A map of the Gwennap district sent free on receipt of six postage stamps. April 5, 1861. Bankers: London and Westminster, Lothbury,

MR. JAMES HUME, SHAREBROKER, 74, OLD BROAD STREET, LONDON.

"Mining Share Monitor" for April now ready. The most reliable and valuation on East Caradon, East Cara Brae, Cuddra, and the leading mines of the Free for six postage stamps.

M R. THOMAS SPARGO, SHAREBROKER, 224 and 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C., Commission, 2½ per cent.

MR JOSEPH GREGORY, MINING OFFICES,
1, BANK CHAMBERS, LOTHBURY, E.C.
BUSINESS TRANSACTED in BRITISH and FOREIGN STOCKS and SHARES.
Terms, 1½ per cent. on £100 and above, 2½ per cent. on smaller sums.
Bankers: City Bank, Threadneedle-street.

MR. R. H. M. JACKMAN, MINING AND SHAREBROKER, No. 2, ADAM'S COURT, CITY, E.C., TRANSACTS every kind of BUSI-NESS in MINING SHARES, but not being a dealer buys and sells only on orders coqded to him. Terms, 1½ per cent.

April 5, 1861. Bankers: London and Westminster.

RICHARD CLIFT, MINE SHAREDEALER, late of Redruth, now 48, THREADNEEDLE-STREET, LONDON, where all letters are to be addres

MESSES. DANIEL beg to announce that they have ceased to publish the "Mining Review and Trade Circular" of Mr. Richard Tredinnick, and that they have no further connection whatever with that publication. But they continue to TRANSACT BUSINESS in the PURCHASE and SALE of BRITISH MINING SHARES and OTHER DESCRIPTIONS of PROPERTY upon the strictest principles of honour, and the most reasonable terms. Practical experience and reliable advice as to the investment of capital may be obtained gratis at their offices. Acting henceforth in conjunction with a firm of the highest respectability and influence, and established for upwards of 20 years, Mosars. Davika are prepared to submit a carefully ascilled and trustworthy list of dividend-paying and progressive mines of undoubted character, sound prospects, and nonest management.—Offices, 77, Old Broad-street, E.C., Alley, C.P., DENIELLE, MINING.

MR. MURCHISON'S REVIEW OF BRITISH MINING FOR THE QUARTER AND THE YEAR ENDING 31st DEC., 1860, is NOW READY.

Price One Shilling. At 117, Bishopsgate-street Within, London, E.C.

ROBERT FRAZER AND SONS, DEALERS in LUMP and GROUND MANGANESE of EVERY DESCRIPTION.
WORKS, FILLING SHORE, GATESHEAD-ON-TYNE, OFFICE, 39, SANDHILL, NEWCASTLE-ON-TYNE.

VALUABLE MINERALS TO LET, ON LOCHFYNE See Mining Journal of March 16, page 174.

THE MIDLAND IRON COMPANY, ROTHERHAM,
MANUFACTURERS OF BEST "TORKSHIRE," and of STEEL IRON TIRE
BARS, for LOCOMOTIVE ENGINE, CARRIAGE, and WAGON WHEELS. Also

MR. T. P. THOMAS, 2, CROWN COURT, THREADNEEDLE ASSETT, LONDON, E.C., has FOR SALE TWENTY MOUNT PLEASANT ASSETTING AS

MR. T. P. THOMAS begs to give notice that his NEXT SALE of MINING SHARES BY PUBLIC AUCTION will TAKE PLACE at Garraway's Coffee House, Change-alley, Cornhill, London, on THURSDAY, the 25th inst. Persons desirous of putting up shares at the above sale must give notice of same at the offices of the auctioneer, 2, Crown-court, Threadneedle-street, London, on or before the

FOR ABSOLUTE SALE, CATHERINE AND JANE CONSOLS SILVER-LEAD MINE, FESTINIOG AND LLANDAWYN, MERIONETHSHIRE:

MINE, FESTINIOG AND LLANDAWYN, MERIONETHSHIRE.

MR. T. P. THOMAS has been favoured with instructions to SELL,
MR. T. P. THOMAS has been favoured with instructions to SELL,
London, on Thursday, the 25th inst, at Twelve o'clock precisely, the above VALUABLE
and EXTENSIVE MINE, together with the BUILDINGS, MACHINERY, PLANT,
ORES, STORES, and PROPERTY of the shareholders in or upon the mine, comprising,
amongst other articles, a 24 in. cylinder ENGINE, for pumping and drawing, complete,
one boiler about 9 tons; 30 fms. of surface-roots, 6 in. square, with pulleys and stands;
1 balance-bob; 1 angle-bob; shaft tackle and two pulley-stands, with shieves to fit;
70 fms. of \$\frac{1}{2}\$ cample of \$\frac{1}{2}\$ cample of \$\frac{1}{2}\$ of ms. defice of \$\frac{1}{2}\$ of ms. all iron and rood;
40 fms. bell-wire and knocker; 6 barrows, 2 tram wagons, 6 winze kibbles, 1 double
winch, 16 tons of coals, 1 clock in engine-house.
Shart Darssing-Flooris.—One juging, 1 kieve, 30 fms. launders, 2 large barrows.
Shirtis' Shor.—About 4 tons of iron, various sizes; 2 36 in. bellows, 1 anvil, 1 vice,
1 iron horse, a quantity of smiths and miners' tools, 1 ton of old fron, 30 fms. of \$\frac{1}{2}\$ in chain, 2 large fron blocks, 1 large chest, 3 pairs plates and taps, 2 troughs, 2 benches,
1 serve stock, 3 miners' chests.

Carpinters' Shor.—One bench, 1 chest, 2 pit saws, about \(\frac{1}{2}\$ ton of rape oil, small
number of carpenters' tools, 20 hos, of leather, several lots of sawn timber, water-cask,
bell and stand, and grindstone.

Carpenters' Shor.—One bench, 1 chest, 2 pit saws, about ½ ton of rape oil, small number of carpenters' tools, 20 lbs. of leather, several lots of sawn timber, water-cask, sell and stand, and grindstone.

Material House.—Eight dozen hits, 20 coils of fuse, 15 lbs. candles, 60 lbs. powder, 6 reams of brown paper, 1 owt. nails, small beam and scales, 4 cans, 2 pieces iron wirework, ½ cwt. antifriction grease, ½ cwt. white lead, candle chest, 1 bobbin bemp, 2 sleves.

Stable.—Two carts, rack and manger, one bench.
Saw-Pit and Frane.—Twenty-four larch poles.

Office.—Two tables, 6 chairs, 1 clock, 1 cupboard, 2 stoves, 1 grate, 1 miners' dial and stand, 1 bed, &c., 1 breakfast est, and sundries.

At the Railway Siding.—A 24 ft. water-wheel, 3 ft. breast, with iron axle, centre pieces and ring, and 2 ft. crank, blocks, &c., complete; 2 cast-iron pulleys, 1 lo ft. wind-tore. 1 3 in. nump.

pieces and ring, and 2 ft. Crans, blocas, ecc., complete. I piecking there, 13 in., pump.

Lower Dressure-Floors.—20 fms. of tramroad, 1 ligging complete, 1 picking that buddle, 1 shake, 4 barrows, 7 tubs, 8 sieves, 6 shovels, 2 rakes, 6 bucking homers, 270 lead sacks, 18 in. crusher complete; beam, scales, and weights. And su other articles, too numerous to mention.

For particulars and conditions of sale, apply to W. J. Dusspond, Esq., 5, Adam's-court, Old Broad-street, London; or to the Auctioneer, 2, Crown-court, Threadneodic-treet, London.

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHARE DEALER, 16, HACKINS HEY, LIVERPOOL.

JOHN R. PIKE, GENERAL SHAREDEALER, 3, PINNER'S COURT, OLD BROAD STREET, LONDON, E.C.

FREDERICK WILLIAM MANSELL, MINING OFFICES, 1, HATTON COURT, THREADNEEDLE STREET, LONDON, E.C. Bankers: London Joint-Stock Bank.

MESSRS. THOMAS PENROSE and THOMAS PRICE UNDERTAKE ASSAYS and ANALYSES OF EVERY DESCRIPTION of MINERAL PRODUCT, FUEL, and MANURES, at Messrs. Richardson and Co.'s Assay Office and Laboratory, Copper Ore Wharves, Swansea.

MR. J. SYKES, LEEK, STAFFORDSHIRE, has BUSINESS in the FOLLOWING MINES:—Wheal Moyle, Dale, North Robert, Great Re- Lallack, Ludcott, Wheal Grenville, &c.

CILVER-LEAD ORES—TO MINING CAPTAINS AND OTHERS.—WANTED, CONSTANT SUPPLIES OF SILVER-LEAD ORES, for which full current rates will be given, and cash paid.—Address, Mr. Williams, care of Mining Journal office, 26, Fleet-street, London, E.C.

TO QUARRYMEN.—An established WELSH SLATE COMPANY REQUIRE a MAN of EXPERIENCE and ABILITY to SUPER-INTEND their WORKS.—Applications may be addressed to Mr. Thomas Don (post 42 paid), No. 10, Poultry, E.C.

TO PROMOTERS OF COMPANIES.—The SERVICES of a GENTLEMAN possessing a first-class mining connection REQUIRED to PROCURE CAPITAL to WORK some LEAD and COPPER MINES of undoubted value. A liberal arrangement made with a suitable party.—Address, "Copper and Lead Mines," Mining Journal office, 26, Fleet-street, London, E.C.

S LATE QUARRY.—LOAN at 10 per cent. per annum UPON DEBENTURES of the CARNARYONSHIRE SLATE COMPANY (LIMITED), to the extent of £5000, in sums of not less than £100.—For terms, applications to be \$\mu \text{tr} \text{tr} addressed in writing to Mr. Timothy Tyrrell, Guildhall-yard, London.

COAL MINERS WANTED.—About ONE HUNDRED steady, industrious MINERS are WANTED.—About ONE HOUDER'S bready was warmed at the WOOLLEY COLLIERY, near WAKEFIELD, YORKSHIRE. There are two seams of coal in work—viz., the Barnelsy Seam, of nearly 10 ft.; and the Woolley Silkstone, of ft. in thickness. Constant employment will be found, and liberal wages paid. Several cottages and gardens are to be had we have the works, at moderate rents. There is a school on the premises for the education of the children.—Apply at the Colliery, Woolley, near Wakefield.

TRACTION ENGINE WANTED .- WANTED, a TRACTION ENGINE of the NEWEST and MOST IMPROVED CONSTRUCTION, of high power, with wagons and all requirements complete, to PURCHASE, HIRE, or WORK in PARTNERSHIP.—Address, "P. W. J.," care of Messrs. Vivian, Lucan Ironworks, near Dublin, with lowest terms and full particulars.

WANTED TO HIRE, FORTY or FIFTY COAL WAGONS, to carry 5 to 6 tons each, and made to coan at Co. to carry 5 to 6 tons each, and made to open at one end.—Offers addressed to ns, 249," Mining Journal office, 26, Fleet-street, London, E.C., will receive at-

WANTED, a SITUATION as UNDERGROUND MANAGER, having had considerable experience in the North of England and Wales. Can marvey and plan, &c. Satisfactory references can be given,—Address, "Graig," Post-4

WANTED, an 8 in. PLUNGEL POLE and CASE, STUFFING
BOX and GLAND, H piece and deorpiece to match, — Parties baying the same

WANTED, FIVE HUNDRED to ONE THOUSAND POUNDS, to work a patent, from which a nett profit of not less than £1000 per annum will be certain.—Address, "J.J.," Mining Journal office, 26, 8, 2000. London, E.C.

WANTED by a gentleman, a SITUATION as ASSAYER and ANALYTICAL CHEMIST, or as SUPERINTERDENT in a CHEMICAL CHEMIST, or as SUPERINTERDENT in a CHEMICAL FACTORY or SMELTING WORKS. He is a certificated proli of the Royal College of Chemistry, London; is thoroughly conversant with the managing of gold, silver, lead, and copper ores; and has had several years' experience in alkali, as well as lead and silver smelting works.—Address, "F. C. S.," care of Mr. Holden, bookseller, Churchstreet, Liverpool.

CORNISH BORER STEEL.—Upwards of ONE HUNDRED
AND SIXTY MINES are SUPPLIED with this STEEL, and the DEMAND
for it is RAPIDLY INCREASING.—For terms, apply to R. MUSHET and Co., Forest
Steel Wars, near Colefond, Gloucestershire.
Loudon Agent:—Mr. W. T. HENDRY, 71, Cannon-street West, E.C.

IMPORTANT TO THE IRON TRADE.—By the AID of J. BROAD'S PATENT APPARATUS for ECONOMISING COAL and OTHER FUEL in BLAST FURNACES, EVERY AVAILABLE PARTICLE of SMATL FUEL MAY BE SO USED as to be nearly equal in efficiency to large coal and coke.—17, Belgrave-terrace, Villa-road, Handsworth, near Birmingham.

THE "TIMES" for ONE GUINEA PER QUARTER, evening of publication, sent post free, paid in advance. Orders to be made psyable to Mr. June Purchase, news agent, 3, Flint-street, Walworth. Established 1849.

WHEELS. Also, HOOPS, RAILS, SAPETY FUSE MANUFACTURERS, ST. HELEN'S JUNCTION, LANCASHIRE.

Original Correspondence.

COLLIERY INSPECTION, AND TRUCK ACT.

COLLIERY INSPECTION, AND TRUCK ACT.

Sin,—One of your correspondents, signing himself "Coalowner," has raised upon the construction of the statute 23 and 24 Vict., c. 151, the important question whether certain clauses of the Truck Act are now in force, and are to be taken as exceptions within the 28th clause of the last-mentioned Act? The short answer is, that as the Truck Act is neither resited in nor referred to by the statute 23 and 24 Vict., c. 151, all its provisions exist in full force, and, therefore, that it is still legal for the master to supply, or contract for the supply, to his workpeople of any or all of the matters mentioned and detailed in the 23d and 24th secs. of the Truck Act. The 23d section declares that nothing in the Truck Act mentioned shall extend, or be construed to extend, to prevent any employer of any artificer, The 23d section declares that nothing in the Truck Act mentioned shall extend, or be construed to extend, to prevent any employer of any artificer, or agent of any such employer, from supplying, or contracting to supply, to any such artificer any—

1. Medicine. 2. Medical attendance; or, 3. Fuel, or any 4. Materials, tools, or implements to be by such artificer employed in his trade or occupation, if such artificers be employed in mining; or, 5. Any hay, corn, or other provender to be consumed by any horse, or other beast of burden, employed by any such artificer in his trade and occupation.

other beast of burden, employed by any such artificer in his trade and occapation.

6. Nor from demising to any artificer, workman, or labourer employed in any of the trades or occupations enumerated in the Truck Act, the whole or any part of any tenement at any rent to be thereon reserved.

7. Nor from supplying, or contracting to supply, to any such artificer any victuals dressed or prepared under the roof of any such employer, and there consumed by such artificer.

8. Nor from making, or contracting to make, any stoppage or deduction from the wages of any such artificer for or in respect of any such rent, or for or in respect of any such medicine, or medical attendance, or for or in respect of any such frent, or of any such victuals dressed and prepared under the roof of any such employers, or for or in respect of any money advanced to such artificer for any such purpose as aforesaid.

Provided always that such stoppage or deduction shall not exceed the real and true value of such fuel, materials, tools, implements, hay, corn, and provender, and shall not be in any case made from the wages of such artificer, unless the agreement or contract for such stoppage or deduction shall be in writing, and signed by such artificer.

The following clause, sect. 24, provides that nothing in the Truck Act contained shall extend, or be construed to extend, to prevent any such employer from advancing to any such artificer:

1. Any money to be by him contributed to any friendly society, or bank for savings, duly established according to law.

2. Nor from advancing to any such artificer any money for his relief in sickness; or.

3. For the education of any child or children of such artificer.

sickness; or,
 For the education of any child or children of such artificer.

3. For the education of any child or children of such artificer.
4. Nor from deducting, or contracting to deduct, any sum or sums of money from the wages of such artificers for the education of any such child or children of such artificer, and unless the agreement, or contract for such deduction, be in writing, and signed by such artificer.

From the above analysis of the 23d and 24th clauses, it will be se From the above analysis of the 23d and 24th clauses, it will be seen that the allowed deductions are in respect of matters the control of which is entirely within the workman's power, and that being so, it would be grossly unfair if, after, for instance, the workman had had the benefit of good medical advice, that the master should not be able to repay himself out of the workmen's earnings. The Act, and particularly the above clauses, were passed in the interest of and for the protection of the workmen, and not of the masters; the clauses work well, they are largely enjoyed, and the workmen are greatly benefited by them. Such being the case, it is much to be regretted that there are selfish workmen, who having had their money's worth, yet cavil at reimbursing their employers. They must, however, recollect that the above-mentioned deductions are legal, and are worth, yet cavil at reimbursing their employers. The recollect that the above-mentioned deductions are legal, away with by the recent Act 23 and 24 Vict., cap. 151.

April 4, THE PREVENTION OF GAS EXPLOSIONS IN COLLIERIES

DRAINAGE OF GASES-"EXPLOSIVE GAS-CONDUCTOR." Str,-A thorough and abundant ventilation of the works would, no doubt

Str.—A thorough and abundant ventilation of the works would, no doubt, greatly tend to prevent many of those dreadful explosions which have been, and it is to be feared still will be, of frequent occurrence, and so destructive to the lives of the hard-working coal miners.

In seams, however, which contain, as it were, reservoirs of explosive gases, or, at least, of the chief ingredients of such, in a highly compressed state, it may be considered as doubtful whether even a perfect ventilation could altogether prevent the calamitous consequences arising from such gases finding an outlet into the workings, and there igniting; and it appears hence desirable that measures should be resorted to of a more comprehensive character, and such as would leave no doubt of their efficiency. The principal one of such measures would obviously consist in draining off the contents of those gas reservoirs; and the operations necessary for that object should not be confined to, and adapted to the requirements and interests of, one or two collieries, but should form part of a general well-considered system, that would at once comprise in its scope the greater part, or the whole, of the strata in which the coal seams are situated. The structural character of and other geological phenomena connected with carboniferous deposits are generally so well known, or can so easily be ascertained, that there cannot be any great difficulty in planning the respective operations, necessary for extracting the dangerous gases from the seams in such a manner as to be best adapted to, and to take the most advantage of, all the peculiar geological features of the coal field that is thus to be operated upon. With respect to the cost of such works, whether they are undertaken by Government—the colliery owners of each district, perhaps, being required to contribute their shares in propoction—or whether they are carried out by all the colliery proprietors of the district combining to that effect, it certainly would appear in every case to be far below the the respective deposits as to insure the full realisation of their object—at thorough draining off of all dangerous gases from the respective seams—they should at the same time be so arranged as to facilitate rather than interfere with the works of extraction of each respective colliery.

There can be no doubt but that in coal seams which have been abundantly "holed" and drained of their gases by a system of works in which the respective coal fields are treated comprehensively as a whole, accidents

sing from the explosion of large quantities of pent-up gases will be im-asible; and on consideration it can likewise not be doubted that much are comprehensive measures for safety will and must be resorted to soone or later, perhaps after a number of less simple and less efficient scher will have been tried in vain.

prevention of explosions have been taken, it appears worth while consider-ing whether such accidents could not be prevented by purposely firing the gases at once, as soon as they are met with, but in such a manner as ing whether such accidents could not be prevented by purposely firing the gases at once, as soon as they are met with, but in such a manner as to render their burning harmless; this, I imagine, might be done by employing a large iron cage, one or more sides of which are formed by two sheets of wire-gauze, one some distance behind the other, and in which cage a flame is kept burning, the cage being connected, by means of pipes or other suitable channels, with an upcast shaft, or any spot where the passage of burnt gases can do no harm, and where their progress is facilitated: owing to such an arrangement the explosive gases would ignite as soon as they enter the cage of the apparatus, but the fire, owing to the double sets of wire-gauze, could not spread to the gases outside, and the burning and burnt gases would rush off, through the pipes or other channels contrived for that purpose, to places where they are harmless, and in this manner the quantity of explosive gas would be carried off, and the explosion itself be divested, as it were, of all its danger. Of course the air-channels through which the burning and burnt gases are led away should be of sufficiently large diameter so as to make allowance for the expansion of the gases. In such parts of the works where those burnt gases could not conveniently be led (say) to the surface, the burning apparatus, or "explosive gas-con-

example, by which the disarmament of those dangerous gases is to be effected by a more complicated chemical action. a more complicated chemical action GUSTAV JULIUS GUNTHER.

THE VENTILATION OF COAL MINES.

THE VENTILATION OF COAL MINES.

Sir,—I have stated before that the ventilation at Risca should exhaust 48,858 cubic feet, at the rate of eight strokes per minute—that is, with air at its natural pressure. But with a difference of pressure of 4 in. of water column (the total height of water column, equal to 30 in. of mercury, being 33°92 feet.—407 in.) the loss from rarefaction in this case will be 1 in 102 parts nearly, or 479 cubic feet, leaving 48,379 cubic feet, which should be realised. But Mr. Morgan, on Jan. 24, realised only 44,752 cubic feet at 4 in. pressure. Then 48,379—44,752—a further loss of 3627 cubic feet, or 7½ per cent. It may be observed that one stroke of the ventilators at the above pressure should produce 6047 cubic feet, and the above loss may be accounted for from the speed of the machines not being taken with extreme accuracy, or from defect in the action of the machines. If the air became more throttled than it was on Jan. 24, the pressure would then exceed 4 in. of water column, and the engine would perform a less number of strokes. It has been stated that eight strokes per minute is the limit to which in practice the ventilators could be driven, but if eight strokes were obtained at a pressure of 4 in. of water they might be safely driven at greater speed with 1 inch pressure. I make the entire loss from friction and other causes to be equal to 18-horse power out of 46—39 per cent., if the data furnished be correct.

I must refer again to Dr. Ure's "Supplement to Dictionary," page 261:

furnished be correct.

I must refer again to Dr. Ure's "Supplement to Dictionary," page 261:
n the fifth paragraph the beneficial effects of condensed air are ably shown.
The remarks apply more particularly to the ventilation of public buildings, but as the principle has been tried to some extent, I should be glad to learn if 4 in. pressure of water be required in a mine on the rarefying principle, what pressure above 4 in. would be required on the condensing principle to put the same quantity of air in circulation.

M. B. GARDNER.

IS THE DAVY LAMP SAFE IN STRONG CURRENTS OF GAS:

IS THE DAVY LAMP SAFE IN STRONG CURRENTS OF GAS?

Sin,—In last week's Journal there is a letter, signed "Colliery Manager," respecting Davy lamps in strong currents. An instance is given by the writer where an explosion, he seems to think, occurred at a perfect lamp, owing to contact with a strong current. I beg to say that, from long experience, I have the strongest confidence in the Davy lamp, and also numerous experiments have been made with the lamp which prove conclusively that an explosion can never occur with a perfect lamp, if ordinary care be taken. But the case he adduces, to my mind, affords another solution of the question as to how the explosion occurred. The tunnel, or drift, was closed with masonry for the purpose of extinguishing a fire at a blower of gas. Now this is a very difficult operation; the greatest care is requisite in order to get the place hermetically sealed. The least crack or space will admit air, and so prevent the purpose being effected; again, the opening out of the stopping is always a hazardous affair, and several explosions have occurred when this has been attempted. A considerable time should always elapse before this is attempted, and the greatest care exercised when it is done, by the use of thermometers, &c.—from a week to three months is the time generally allowed. But in the case cited only a few hours elapsed from the closing of the place until it was again opened. My view of the case is this—The gas, and perhaps coal, was still burning when the stopping was taken out, and a considerable quantity of gas had collected in the tunnel, and on the admission of a plentiful supply of oxygen by the opening the explosion would naturally follow. This has occurred frequently, and it is only reasonable to suppose this to be the real solution.

Colliery Viewer.

CORNISH DRY ASSAY-"SMELTERS' PROFITS."

CORNISH DRY ASSAY—"SMELTERS' PROFITS."

Sir,—In reply to the remarks of "One in the Trade," in the Journal of March 16, I beg to disclaim any wish to make unnecessary parade of the grievances of the miner, or to attack the interests of the smelters; but the experiments of Mr. Henderson having led to the conclusion that the present mode of using common salt in the assaying of copper ore caused a considerable waste of copper, I felt it due to my Cornish friends to call their attention to it. I had no intention of charging the smelter with making unfair profits, nor did I make any allusion whatever to the practice of claiming 21 cwts. as the ton of ore; but it does seem rather strange that in assaying an ore a fictitious value is sought for the purpose of the purchaser, rather than the real one, an anomaly which I think exists in no other trade. Surely, with all these advantages, the smelter ought to make a profit, even at present prices

My time will not allow me to go into details, or I think I could show that

At present prices

My time will not allow me to go into details, or I think I could show that
the smelters' profits are not such a "myth" as to prevent "One in the
Trade "from retaining his interest in them. A look at the list of purchasers will disclose names of those who formerly existed as miners only;
and I understand that a new firm is about to commence, composed of percompactant and the trade, and of at least one miner. "One in the and I understand that a new firm is about to commence, "One in the sons acquainted with the trade, and of at least one miner. "One in the Trade" should not be too sure; the miners may yet "bell the cat," and smelt their own ores in the bargain; they will then be able to take care of W. RICKARD.

their own surplus copper.

Myrtle-street, Liverpool, March 30.

PROSPECTS OF SILVER MINES.

PROSPECTS OF SILVER MINES.

Sir,—Adverting to the new chemical discovery, I have, so far as opportunity offered, gone into the statistics, financial position, prospects, &c., of our home and foreign silver mines. To all the recent chemical discovery of the existence of oxide of silver will be a great boon—for example, the shares of the Cornish Silver Vein Mine are in consequence already at a premium of 1000 per cent.; but in one case especially the effects will be incalculable, I refer to the United Mexican Mines. From reliable authority I have ascertained that an enormous quantity of unreduced gossan had accumulated in the vicinity of the United Mines during a series of years, in consequence of the amount of pure or unoxidised metal it contained not being sufficient in quantity to render the process of its extraction fehemical science, this mass of discarded gossan will, in all probability, prove itself a veritable "mine of wealth," so valuable, indeed, that as soon as ever the proper process is brought to bear upon it the yield will be perfectly wonderful. Thus, what between the present altered and brightened prospects of the mines themselves, and the prospective conversion of the oxide contained in this huge waste mass of gossan into metallic bar-silver, it is, I think, a legitimate deduction when I assert that these mines will prove one of the most valuable known mineral properties in the world. The astounding fact to me being that the shares should be below par; it cannot, however, be long before they will be at the same proportionate premium as they now are at a discount.

Philos.

NATURAL OXIDE OF SILVER.

SIR,—Your correspondent, "Chemicus," appears to be labouring under an erroneous impression. Natural oxide of silver has been well known for many years to those engaged in silver mines. It is often found in a state of fine dark powder, accompanied with minute grains of metallic silver in the oxidated parts of mineral veins, especially near the surface. Not only is it found in argentiferous veins in south America, Mexico, Spain, and Germany, but also in some of the iron and copper gossans of Devon and Cornwall. When such gossans are found by assay rich enough to pay for extracting the silver, they are bought by parties who are engaged in the reduction of silver ores. It matters not in what state the silver may be in the raw material—sulphuret, chlorate, sulphate, oxide, or metallic—a dry or wet assay, carefully done, will show the true contents, if the whole bulk be properly ground, mixed, and sampled. If anyone has discovered a method by which he can make 13 cos. equal to 113 cos., I would recommend him to keep the secret, confine himself to his private laboratory, and not trouble himself about gossans or oxide of silver in copper lodes. Some time ago similar attempts were made to enrich quartz with gold, and the public were told that quartz containing only \(\frac{1}{2}\) oz. of gold per ton by assay was made, by a secret process, to produce 20 cas. per ton.

I recommend "Chemicus" to enquire further into this question, and to ascertain what are the difficulties attending the reduction of minerals, gossans, and slate containing only 10 or 20 czs. of silver per ton with profit. If "Chemicus" can show that a method has been discovered by which poor silver ores can be concentrated to the value required to pay for the extraction of silver, I shall be happy to hear from him, and make arrangements to supply the ores in any quantity, so that the operation may be carried on on such a seale as would be remunerative to himself and the Sir,—Your correspondent, "Chemicus," appears to be labouring under a erroneous impression. Natural oxide of silver has been well known

In such parts of the works where those burnt gases could not conveniently be led (say) to the surface, the burning apparatus, or "explosive gas-conductor," might be so arranged that the burnt gases, after having sufficiently cooled down, are led back again to the spot where the explosive gases exist, and, mingling with the same, tend to choke theiry fiery nature.

I imagine that the principle of burning the gases by means of an appropriate apparatus is easier to be carried out in practice, and, on account of its very simplicity, far more efficient than most other schemes; such, for the poor silver containing only 10 or 20 ozs. of silver per ton with profit. If "Chemicus" can show that a method has been discovered by which ductor, and so arranged that the burnt gases, after having sufficiently extraction of silver, I shall be happy to hear from him, and make arrangements to supply the ores in any quantity, so that the operation may be carried on on such a scale as would be remunerative to himself and the company. I can furnish him with our present cost of extraction, whether its very simplicity, far more efficient than most other schemes; such, for the containing only 10 or 20 ozs. of silver per ton with profit. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. If "Chemicus" can show that a method has been discovered by which ductor. I

ing silver from a ton of raw material by the new process? How many tons have been reduced to prove the merits of the new system?

Clarendon-gardens, April 2.

EVAN HOPKINS.

NATURAL OXIDE OF SILVER.

NATURAL UAIDE OF SILVER.

SIE,—The importance to many of your readers of such a discovery of natural oxide of silver as is asserted in the letter of "Chemicus," in last week's Journal, cannot be overrated. The letter, however, is so provokingly silent as to the ores, the refuse, the method of reduction, and as to when, where, and by whom the experiments were made, that the truthfulness of the discovery must already be the source of much anxiety to many; and the writer would render great service if he will supply such information as may justify the expectations raised, and render the discovery available.

J. P.

NATURAL OXIDE OF SILVER.

NATURAL OXIDE OF SILVER.

Sir.—I have noticed several letters, both in the Times and Mining Journal, on this subject. It is a great pity that something cannot be done to test, practically, whether there is anything or not in "Squire's process." All practical men whom I have spoken to on the subject utterly ignore it. One thing seems pretty clear—that the idea of Mr. Squire's assay showing more silver than others must be fallacious, as the usual process of wet assay would test the whole quantity of silver, no matter how it exists, whether as oxide, chloride, sulphuret, or in any other form. Mr. Squire, however, may have discovered some process by which argentiferous gossans, and such descriptions of ores, can be treated to more advantage than is now the case. At present the smelters will only pay for silver when the

OXIDE OF SILVER.

SIR,-Your correspondent, "Chemicus," in his letter upon the oxide of

SIR,—Your correspondent, "Chemicus," in his letter upon the oxide of silver, has made such an important and extraordinary statement, that I feel bound to ask him a few questions. The non-affinity the precious metals have for oxygen, the difficulty with which they are oxidised, and the rapidity that when once oxidised they liberate the needed, and the rapidity that when once oxidised they liberate the needed as a discovery by any chemist, ancient or modern; in fact, there is no formation, or no combination, that I have ever investigated which would allow gold to exist as an oxide the space of a second. The affinities of silver for oxygen are so slight that it has been proclaimed by chemists to be an impossibility in nature, and only to be found as an artificial production made by the stronger acids used in the laboratory; for natural acids, weak and dilute, and a gentle, slow electro-chemical decomposition that is constantly at work in veins more or less assisted by the infiltration of water, are not powerful enough to cause the union of bodies so antagonistic to one another. Your correspondent, however, speaks of oxide of silver "in enormous quantities," and talks of 113 ozs. of silver instead of 13 ozs. to the ton, as in the former instance, where the oxide of silver had been ignored. I would ask him in what peculiar combination, whether in lime, granite,

quantities," and talks of 113 ozs. of silver instead of 13 ozs. to the ton, as in the former instance, where the oxide of silver had been ignored. I would ask him in what peculiar combination, whether in lime, granite, slate, &c., have these "enormous quantities" of oxide of silver been hermetically sealed. He says that the cost of reduction of this oxide of silver is relatively so small as to render the expense merely nominal. In that statement I perfectly agree, for the oxide of silver would, under most circumstances, reduce itself, and, therefore, the cost must be but a trifle. That oxide of silver does exist in nature I am bound to allow, but in such extremely small quantities, and under such peculiar conditions, that it That oxide of silver does exist in nature I am bound to allow, but in such extremely small quantities, and under such peculiar conditions, that it must be treated more as an accidental exception. I discovered it in a gold and silver vein crossing the bed of the Tumut, in Australia, and in close proximity to layers of native gold, and small crystals of native tellurium; but the quantity was so small as not to be of the slightest commercial interest. I again found a very small portion, with some carbonate of silver, in one of the Tres Puntas Mines, in Atacama. I had likewise the pleasure of detecting the presence of oxide of silver in company with carbonate from Real de Catorce, in Mexico, but in no one instance was the specimen of the slightest commercial value, and was always at some distance from the oxidisable metals—viz., manganese, iron, copper, &c. Lead, whose affinity for oxygen may be some 600 times greater than silver, is also rare as a natural oxide; and although I have upwards of 100 localities for its existence in that state, it is always more or less in extremely

is also rare as a natural oxide; and although I have upwards of 100 localities for its existence in that state, it is always more or less in extremely small quantities, and in most instances slight incrustations.

In one thing I heartly concur with your correspondent—the vast quantity of metal that is cast aside in ores that have hitherto been rejected as useless. There is a wide field open to anyone to introduce some economical method of treating rich refuse. As to the existence of enormous quantities of natural oxide of silver, I can only say that it must be extremely local, and the result from such a deposit, using his own term, "would be almost fabulous."—April 4.

JOHN CALVERT.

THE COPPER TRADE-PRESENT AND FUTURE.

The object of the Ontonagon Mining District Association (which is composing to object of the Ontonagon Mining District Association (which is composing the object of the Lake Superior district, among them many Cornish uperintending our best mines) in sending an agent to Europe was to diffuse the formation on the climate, soil, resources, development of our mines, or the contract of the contract information on the climate, soil, resources, development of our mines, or The object of the Ontonagon Mining District Association (which is composed of the most honourable men of the Lake Superior district, among them many Cornish captains superintending our best mines) in sending an agent to Europe was to diffuse true and exact information on the climate, soil, resources, development of our mines, commerce, and future of the Upper Peninsula of Michigan. Less than 24 years ago this territory became a part of the Siate of Michigan; at that time it was considered a comparatively worthless territory. The man who would have predicted the development that has followed,—the opening of rich exhausticas wealth, the existence of flourishing villages, the seats of future cities, and its already large commerce,—would have been called a foolish dreamer. All this great work—to open this extence of flourishing villages, the seats of future cities, and its already large commerce,—would have been called a foolish dreamer. All this great work—to open this extence of flourishing villages, the seats of future cities, and its already large commerce,—would have been called a mineral rocks, and search the metalliferous veins—has been done by a few hundred hardy ploneers, and with a small capital, in comparison with the magnitude and difficulty of the enterprise. A great number of Cornish miners (not so blind and incredulous as "Copper"), having been informed in time of the rich deposits of Lake Superior, came to that interesting country for them line search of work, and have taken a large part in the exploration and working of the mines of the country. At Minesota Mine, the mining works are conducted by Capt. E. Jeunings, assisted by Capt. Bull in the conduction of the country. At Minesota Mine, Capt. Bull in the same of the country and for the companies, and possessed of a large amount of practical knowledge and long experience in mining. Five thousand Cornish miners, with their families, are established in the three mineral districts of Ontonagon, Portage Lake, and Keweman Point, also in the iron mines

splital, actence, and labour; let us give you all the true and exact information of our past, present, and future.

The copper mines of Lake Superior are not brought before the public to be represented which the years of experience has taught us. The extent of our territory and the wealth which ten years of experience has taught us. The extent of our territory and the wealth is all experience has taught us. The extent of our territory and the wealth is set of Europe, to visit and examine our mineral district; and those who will do so will be able, after a careful examination, to secure for a nominal price rich and valuable copper mines, from mountains, and large tracts of agricultural and mineral lands, with water-power, for a few dollars an arre. We have not the audacity, like "Copper," to declare that the yield of copper in England is hilling off, and that but for Lake Superior mines England will be left without a supply; on the contrary, we acknowledge with the reat of the world that England is the first productive country for copper, and is aften the east of the world that England is the first productive country for copper, and is aften the east of the world that England is the first productive country for copper, and is aften the east of the world that England is an active of the productive country for copper, and is aften the east of the world that England is the first productive country for copper, and is aften the east of the world that England is the first productive country for copper, and is aften the east of the world that England is the first productive country for copper, and is aften the east of the world that England is the first productive country for copper, and is aften to demand the wealth of the world that the productions. We are young as adventurers of Lake Superior, but the head of the mining interests; but we are right in anticipating good for the fature, from our past yearly productions. We are young as adventurers of Lake Superior to reach this run of ore at a more convenient point. Ha espital, science, and labour; let us give you all the true and exact information of our past, present, and future.

The copper mines of Lake Superior are not brought before the public to be represented with exaggeration. We acknowledge our faults, as well as our unsurpassed success, which ten years of experience has taught us. The extent of our retrieory and the wealth of our local solice as low us to invite the scientific and practical mining men, also the capitalists of Europe, to visit and examine our mineral district; and these who will do so will be able, after a careful examination, to secure for a nominal price rich and valuable copper mines, iron mountains, and large tracts of agricultural and mineral lands, with water-power, for a few dollars an acre. We have not the andactly, like "Copper," to declare that the yield of copper in England is filling off, and that but for Lake Superior to declare that the yield of copper in England is filling off, and that but for Lake Superior mines England will be left without a supply; on the contrary, we acknowledge with the rest of the world that England is the first productive country for copper, and is at the head of the mining interests; but we are right in anticipating good for the future, from our past yearly productions. We are young as adventurers of Lake Superior, but we are promising; and as the English capitalists and mining men are known to be pretty shrewd, and glad of good opportunities, I do not see why they should not carefully examine a new country, where the climate is salubrious, where mines of great promise can be bought at a cheap price, and where, if worked with sufficient capital, the economy, science, and skill which the English mining men are known all over the world to employ in their mining adventures would be remunerated with coronous profits. In the Lake Superior region, when you buy the mineral lands or locations, besides the subsoly you own also the surface land, with a rich and productive soli covered with heavy and good timber. You th

SILVER VEIN MINING COMPANY.

SILVER VEIN MINING COMPANY.

Sir,—Many of your readers have been watching the proceedings of this company with great curiosity. It was formed about a year ago, with the object of extracting a larger amount of silver from the Cornish gossans than now done, and at a cheaper rate than the present methods. Parcels of ore containing silver have been frequently found in Cornwall and Devon in connection with copper, blende, antimony, and lead veins, and sold for high prices to the smelters. However, it is alleged that a process has been discovered by which the product in silver from any given bulk of mineral can be increased tenfold, and thus rendering such argentiferous minerals invaluable to their possessors. This company, instead of selling the ores, as done heretofore by miners, according to the contents by assay, subject them to the new process, by which it is said their yield in silver, but for bulk (not concentrated) is largely increased, Indeed, it is somewhat difficult to determine the limits to which the augmentation in silver can be carried, if what is stated be true. It is presumed, from the repeated representations made in the Mining Journal, that it is a bona fide experiment, and not such as those formed some time ago to extract gold from the rocks of Devon and Cornwall, or rather from the pockets of the too credulous public.

You state in your observations on the proceedings of the company, in the Journal of March 23, that a great amount of scepticism has been entertained in reference to this undertaking. Had the undertaking been confined to the working or purchasing minerals containing silver, and to extract the whole of the silver they actually contained without loss by a new process, there would have been no grounds for much scepticism, even should it prove in the end an unprofitable enterprise as a commercial speculation. But when the public are led to infer that Mr. Squire has discovered a process by which he has the power of increasing the silver in the raw material to any amount, I think men of t

cess, and it was promised that the results should be published in the Journal, but they never appeared.

The directors of this company stated at the meeting held on March 19 that 10 tons would be successfully reduced in a few days, and that we should have the results. What were the results? I am sure that all well-wishour to legitimate enterprises would wish the company every success if their experimental proceedings are bone file; and even should they be disappointed in augmenting the quantity of silver, or in obtaining profitable results, yet if they can establish a cheaper mode of reducing silver ores than the methods now in use in England and abroad they will effect a beneficial object.

April 3.

EVAN HOPKINS.

April 3. [We think our correspondent has somewhat misunderstood the proposition laid down by the Silver Vein Company. They do not assert, we apprehend, that Mr. Squire has the power of increasing the quantity of silver actually contained in raw gossan, but that by all the methods hitherto adopted, where the silver exists in the form of an oxide, or, as we should suppose more probable, a sulphide, the greater proportion of the silver was lost, whereas by his process all, it is said, is retained. Again, with respect to the quantity operated on, the statement was that is such there were blocks of 2 lbs., 3 lbs., and 20 lbs. We understand that the gross quantity per furnace is about 1 ton weight of gossan.]

SILVER VEIN MINING COMPANY.

ver, cali-nely

d as ono-lous

ex-

ead-

eply
upeyet;
gers
the

of the

merce,
ritory
tively
at has
lisges,
alled a
re the
undred
l diffidulous
, came
eart in
nining

by able country and long e estaPoint, cornish of their hem so me the you not ment of

MOUNT PLEASANT MINE (MOLD, FLINTSHIRE).

Fig.—I was exceedingly glad to see in last week's Journal the 'reply of the present manager (fig. R. Williams) to the remarks of a "Shareholder," on this mine, in the previous number, and with your permission to occupy the space in your valuable Journal, will endeavour to lay a few of the facts before the public. There is not the slightest doubt regarding the capabilities and tatent of the present manager, but I hope to be able to show that it is quite possible for even him to err. He (Mr. Williams) says that under the old management there was in the free years (1858 and 1889) 5120 tons of ore raised, valued at 18,1534., and dividends paid to the amount of 54401. Now, the facts are that in the year 1859 the management was in the hands of the directorspolely, there no dividend paid during that period; the above sum of 54401, being paid as dividend in the year 1858, during which time I had the management. Again, previous to this, and notwithstanding the mine was labouring under very heavy expenses, such as sinking three, the waster of the previous to the vertice of the particle of the pa

| Market | M

MINE INSPECTION.

MINE INSPECTION.

MINE INSPECTION.

MINE INSPECTION.

MINE Age of the meaning of

THE "RELINQUISHMENT" OF SHARES BY VENDORS.

THE "RELINQUISHMENT" OF SHARES BY VENDORS.

Sir,—Having been recently induced to invest some spare capital in one or two mining companies, I consider there is a process in the management of these concerns which should be protested against. When a new company is ushered into the commercial world, if the prospectia is skilfully expressed, there is not much difficulty in getting sufficient money to start the works and to carry them on for a few months. The shareholders are then led to imagine that all will run smoothly as a marriage bell. Very encouraging reports are habitually sent up by the manager, and the expectation of the shareholders, that the "great north tode" may be cut any day, and the mine thus become "as great success," is constantly kept up; so much so that, perhaps, some of them have bought their shares at a premium. By-and-bye the engineer or manager reports that new adits must be driven, or a larger steam-engine erected to pump out the water and perform other operations. Then it is found that the paid-up capital is nearly exhausted, and that there are not sufficient funds in hand for these expenses, "absolutely necessary to render the mine profitably productive."

Now the shareholders are started by another flattering report from the engineer, but accompanied by a quiet letter from the secretary, stating that, under these circlumstances, the "vendors" have "generously relinquished" 300 or 500 shares, which they gracticusly offer at par to the existing shareholders.

Now, how is it that vendors can afford to give up shares in this manner, if directors consulted the interests of shareholders when purchasing such properties "on very advantageous terms?" Why should vendors give up shares when they have sold their interest? If the reason is to be found in the fact that vendors are also the directors, and thus make their own terms, then I think that when companies are supported by respectable names, and the public subscribe to them, believing that good faith will accurate all the operations of the compa

SLATE IN CORNWALL.

SLATE IN CORNWALL.

SIR,—How is it that the slate deposits in the neighbourhood of the Delabole Slate Quarries, in this county (Cornwall), do not attract the attention of capitalists, when such quarries now working, no doubt, are worked at a considerable profit? There is always a large demand for alate of the Delabole character, which is in every respect equal to the Welsh slate; the demand is much larger than the supply. The present Delabole Company, comprising only a few wealthy men, year after year keep some hundreds of hands in constant empley, and yet cannot get their slate first enough to supply their regular customers. What may be fairly inferred from this fact; that the works are unprofitable or profitable? Your readers can draw their own conclusions.

I cannot comprehend how it is that such a mass of valuable marketable stone as lies in the Delabole district should still, in the year 1851, lie buried and unprofitable, when hundreds of thousands of pounds are yearly thrown away in undertakings which do not hold out any prospect of success at all equal to working slate quarries in the locality mentioned, provided they are properly manaxed, as your correspondent in last week's Journal remarks. The private manner in which the Delabole Quarries are worked, and also the Bowithick Quarries, containing the same kind of slate, may be one reason why this class of investment is not much known; and possibly it is not a favorite property with sharedealers.

There are grants which may be had of certain lands in this district where I know that good saleable slate can be raised within 6 ft. of the surface, and where there is every advantage for working on a large scale.—April 3.

WENDAL MENTS ON

WHEAL NELSON.

WHEAL NELSON.

Sir.—Having seen in last week's Journal the report of a meeting of Wheal Nelson, where Mr. Peter Watson made statements respecting me contrary to the truth, I beg you will do me the justice to insert the following facts:—I am charged with misleading them from and zince December, 1860. Now, the Messrs. Watson and shareholders know that Capt. George Olgers was manager down to July 25, 1860, and I had nothing to do with reporting or expenses down to that date; and from July 25, 1860, Mr. Win. Watson ordered everything wanted on the mine; he attended every monthly pay and setting, and reported to head-quarters all information respecting the underground settings and future prospects of the mine. And now, Mr. Editor, let me ask the proprietors what had I do with deceiving the committee of management or the shareholders?

In conclusion, I may, however, state that about the middle of 1860 Mr. Peter Watson, accompanied by his brother, Mr. Wm. Watson (our purser), visited Wheal Nelson. We had a small parcel of copper ore preparing for sale; they took away with them samples and had them assayed at Tavistock, and informed me by letter that it made a produce of 26½ per cent. For copper,—If correct it would have been worth about 27:, per ton; but, unfortunately, the parcel was sold at the next Cornish ticketing for 91, per ton; but, unfortunately, the parcel was sold at the next Cornish ticketing for 91, per ton; barrellolders?—Camborne, April 2.

WEST WHEAL EREENDSHIP—LEGITIMATE MINING.

WEST WHEAL FRIENDSHIP-LEGITIMATE MINING.

Sin,—My attention has been drawn to the prospectus, which appeared in the Journal a few weeks since, of a limited company, who propose working the West Wheal Friendship Copper Mine. The working capital, it appears, has been fixed at 18,0001. 60001. of which is to be paid for the property. The chief feature, it is stated, in this enterprise is that three lodes known to exist in this sett will form a junction at a depth not much greater than the bottom of the present engine-shaft, which has already been sunt 53 fms. from surface. The point at which these lodes coalesce can be reached, it is said, in six months from the time of the erection of the engine, when "very productive returns may be comfidently anticipated."

am content with my old shares, and hope and wish the undertaking or association me have lock at last to repay it emby a part of a most fearful outlay. I wish it every su cases, and recommend shareholders to keep a share eye, and fairly, on both directors a managers, and to avail themselves of the new laws as regards uning generally in parts of Mexico.

Another Unlucky Shareholder, an Original Proprietor.

UNITED MEXICAN MINE.

UNITED MEXICAN MINE.

Sig.—An "Original Shareholder," in last week's Journal, might have informed your readers, without any exaggeration, that the company possess a claim called the "Zacateoa claim" (§ 70,000), an amount which is nearly equivalent, and a "set-off," to their loan of 17,000/., and its bonus of 25 per cent., which the shareholders, or such of them as advanced money out of their pockets, when all appeared hopeless, or next to it, are richly entitled to now that better times have come. They will soon be repaid if \$30,000 or more arrive by the first conducta, and the company has \$90,000 in ores out a first mortgage on the mine of Cata, for at present it pays nothing, nor does Rayas. The company have a claim of \$270,000 (and perhaps \$70,000 on Trinidad besides) on the mine of Jesus Maris et Josef, and it is from this mine solely that the rich returns are made. Let us justly calculate that this, at least, will be paid, and add it to the Zacateous claim, of which \$130,000 has been paid off by the Government of Mexico, out of \$200,000, the amount of the compromise, and thus the proprietors have a total in good and substantial claims of \$340,000 (Trinidad not included) against the loan of 17,000/, and a bonus, or, say, about 65,0001. week to her against, at most, 24,0001, principal and interest owing by her. These facts you may depend upon, and your readers, as well as the hitherto unfortunate shareholders, who for the last ten years nearly have not received a dollar from the mine Ferhaps the returns were aft for a time, as happens in the history of mines. I cannot go into this further.

MR. SPARGO'S MINING 6 SPARTEGEROE

MR. SPARGO'S MINING "STATISTICS AND OBSERVATIONS."

MR. SPARGO'S MINING "STATISTICS AND OBSERVATIONS."

Siz,—Last week's Journal contains an advertisement of the forthcoming work by Mr.

Spargo, of Gresham House, entitled, "Statistics of, and Observations upon, the Mines of
Corawail and Devon," to be sold at 5s, per copy. I have also seen the previous volume,
Issued last year, online same subject, which having been reviewed by numerous periodicals, has been very highly recommended; but the volume about to appear will, I am
persuaded, be greatly superior to its predecessor, from the fact that the contents will be
more full, varied, and interesting. At a considerable expense, Mr. Spargo engaged the
services of a gentleman well known in Cornwall, from his connection with and knowledge of mines, to collect the statistical information, who has devoted much time to the
subject, and precured an amount of information unprecedented and novel in its character.

I happen to know this from an inspection of some of the returns sent to Mr. Spargo's

office by the gentleman referred to, with whom I came in contact while on his journey

through the mining districts. The work will be rendered very valuable to investors in

mines, not only from the extensive information which it will furnish as to the results of

the employment of capital in mining pursuits, but also from the several maps of the

mining districts, and of the county of Cornwall, which will accompany the same. I

question whether Mr. Spargo will be reimbursed by the sale of the work for all the

money expended in its production; but he well deserves the patronage, and also the

thanks, of miners for his services thereby given to the cause of mining, which is so im
portant to the counties of Devon and Cornwall, and to the nation.

MINE AGENT.

Meetings of Mining Companies.

WICKLOW COPPER MINING COMPANY.

The ordinary half-yearly meeting of proprietors was held at the offices, Dame-street, Dublin, on Saturday, Mr. John Barton in the chair.

Mr. CRUISE (the secretary) read the advertisement convening the meeting, and also as following report of the directors:—

Dublin, on Saturday, Mr. John Barton in the chair.

Mr. Crusse (the secretary) read the advertisement convening the meeting, and also he following report of the directors:—

The directors have pleasure in calling the attention of the proprietors to Mr. Barnes' report, which, both as regards the operations of the half-year just passed and the future prospects of the mine, will bear favourable comparison with any they have yet had the gratification of submitting. It will be observed that the produce of coppery pyrites (referred to in the directors' report of Sept., 1860, as improving) may now be considered of a permanent nature; that the new engine and engine-house have been completed, and the drawing by wagon direct from the bottom of the old line successfully established. As a considerable portion (nearly two-thirds) of the towniand of Ballymurtagh remained unexplored for mineral; and as your directors believed that fresh operations upon this part of your property would meet with success, they proposed to the Hibernian Mine Company to sink a new shart, and carry out the works necessary to explore this ground, provided they encouraged us to incur the expense of doing so, by agreeing to a reduced royalty upon any ores that might eventually be raised from said unexplored or new ground. The directors have great pleasure in announcing to the proprietors that the Hibernian Mine Company met their views in the most liberal manner, and at once agreed to reduce the royalty to 1-16th upon all such ores. Thereupon the sinking of the new shaft was immediately commenced; and, as will be seen from Mr. Barnes' report, the indications are such as give every hope of success, and encourage your directors to believe the result will prove beneficial to the Hibernian Mine Company, as well as to the Wicklow Copper Mine Company. The accounts on this occasion show a larger quantity than usual of ore unshipped; but when it is borne in mind that we have gone through a half-year remarkable for its severity, which so greatly impeded the ov

for re-election.

The Charlesan said there was very little indeed for him to comment on at that meeting Aithough they had a few weeks of fine weather in February, which enabled them to ship 3000 tons of ore, still there was an accumulation in the Wicklow Mines of about 7000 tons. Connected with this large amount of ore to be delivered, he should refer to a large term in the account, but that was the entire estimate of what it would cost when the ore was put on board. The surplus fund included the new engine-house and steam-plug. Another small defalcation had taken place, but it was of a minor character, and had been placed to the debit of deficiency. The disappointment expressed with regard to the sub-division of their shares had been mentioned in the report. There was an unforseen difficulty in the way—the Board of Trade refused to allow it, and on consulting the very best authority they found it could not be carried out. There was a sum of money in jeopardy for ore decisivered to a firm; but they had made new arrangements, by which they were able to get each for their ore; everything delivered was paid for, and they were making 4000l. or 5000l. a-year by it.

A short conversation took place on this subject, after which the report and accounts were unanimously adopted. A dividend of 2l. 12s. 6d. per share was also declared. The out-going directors were re-elected; and, on the motion of Mr. O'Brien, a vote of thanks was passed to the Chairman.

NERBUDDA COAL AND IRON COMPANY.

NERBUDDA COAL AND IRON COMPANY.

The mine base the state of the research continues and the state of the research copies of the control of the present continues and the state of the research of the signs, when "very productive return any be confidently anticipated."

Now, Sir, I to happen to know something of the geology and physical geography of Now, Sir, I to happen to know something of the geology and physical geography of Now, Sir, I to happen to know something of the geology and physical geography of the state of th

nost satisfactorily, and he hoped that when he next had the pleasure of meeting the pro-rietors something more satisfactory than promises would be presented. He concluded y moving the adoption of the report and accounts.

Mr. S. L. FOWTER seconded the resolution. Having been for many years connected rith coal mining, he could testify to the fact that, considering the short time this com-navy's works had been in convenien the most astisfactory more as had been made, and

Mr. 8. L. Forrair seconded the resolution. Having been for many years connected with coal mining, he could testify to the fact that, considering the short time this company's works had been in operation the most satisfactory progress had been made; and be considered the prospects which it presented of the most 'encouraging character, and being of that opinion, he fully intended to increase his interest in the undertaking. The resolution was then put, and carried unanimously.

The next resolution that was passed confirmed the contract between Mr. Blackwell and the company; when the qualification of the directors was increased to 100 shares. Special resolutions were then passed authorising the board to issue debentures for a sum not accesseding 20,000%, in sums of not less than 601, payable at the expiration of five years, and bearing an interest not exceeding 5 per cent. per annum, such debentures to be convertible into ordinary shares of the company at the nominal value of 200, each, power being given to the directors to create new capital to meet the debentures.

It was agreed that the sum of twenty guineas should be given to the Indian Famine Fund, the board stating that they intended to increase that amount by their private subscriptions, and that they would be glad to receive any further subscriptions from any shareholder. A vote of thanks to the Chairman and directors was then passed, when the proceedings terminated.

DOLCGATH UNITED MINING COMPANY

A special general meeting was held at the company's offices, No. 32, Mesterday, Mr. John Chimas (of Camborne) in the chair.

ALCOMES read the motion was represented at the meeting.

ALCOMES read the notice of meeting; the resignation of Mr. Fuller as neceshect to date of such resignation exhibiting—

isting company for 1200 shares of 51. each, credited 11. per share, which will give three 51. shares, 11. paid, for each present unlimited share.

A lengthened discussion took piace on the terms of this preposal, it being contended on the one side that the amount credited per share was more than equivalent to the sum actually paid on the present shares, and that the intrinsic value of an interest in the mine was in no way affected by the amount paid.

The Charkman said he knew the mine well; it was a sett worthy of the most active development, and that although 101. per share had been paid for the present shares, who could say it was too much, when it was known as a fact that within a quarter of a mile of the eastern boundary of the sett the ground for 900 fathoms in length had yielded upwards of 9,000,0001. worth of ore?

Mr. Fullen argued that 21. per share should be credited; that several of the shareholders who had purchased at high prices complained that they were to be only credited 11., while they were to be fixed to a certain liability of 41. per share.

Mr. Charkes Fowell said he thought it was a matter of no importance, and had nothing to do with the real value of the sett and of the shares in the mine, while the satra capital would increase the usefulness of the proposed new company.

Mr. Balcomme explained, when Mr. Barknss proposed—"That the offer made to this meeting by the representatives of the Dolcoath United Company (Limited) for the purchase of the lease, materials, and assets of the mine, by the issue of 1200 share of 31. each, in that company, each credited 11. per share, be approved and accepted, and that the same is hereby, dissolved.—"Seconded by Mr. Marsden.

Mr. Eller moved as an amendment—"That the same be accepted, provided 21. per

each, in that company, each creates at the same is hereby, dissolved."—Seconded by Mr. Marsden.

Mr. Fuller moved as an amendment—"That the same be accepted, provided 2l. per ahare was credited "—but this, for want of a seconder, fell to the ground, and the original motion was, with one dissentient, carried.

Resolved, on the motion of Mr. Balconner, seconded by Mr. Fauntlenor,—"That the shares so to be received be appropriated to the existing adventurers on the cost-book, at the rate of three for each share.

On the motion of Mr. Yarnow, a complimentary vote was passed to the Chairman, who acknowledged it in suitable terms, and referred again to the point upon which so much discussion had taken place. He quite agreed with the explanations given and the point carried: and said he was satisfied, from an intimate acquaintance with the ground, ilving within a mile of the sett—although not a mining captain—that the lodes from the celebrated Dolcoath Mine, which had been a dividend-paying mine for above a century (the present depth of which was 280 fms.) passed through this sett and its neighbour, North Dolcoath. With active development he felt certain the shares would attain a great price.

THE GOVERNOR AND COMPANY OF COPPER MINERS IN ENGLAND.

nnual general court of proprietors was held at the London Tavern, on W

The ninth annual general court of proprietors was held at the London Tavern, on Wednesday, Sir John Hanky Pekly, Bart. (the Governor), in the chair.

Mr. C. Franch (the secretary) read the notice convening the court, and the minutes of the last were read and confirmed.

The Chairman said—Gentlemen, this is the ninth annual general court held since the company's resumption of business, and the operations which have to be reported upon to-day extend over the year ending Jan. 26 last. The printed abstract of the accounts for the company's resumption of business, and the operations which have to be reported upon to-day extend over the year ending Jan. 26 last. The printed abstract of the count of 1490/. 15s. 2d. against the shown that there is a bainance on the profit and loss account of the year, and to the threatened disruption in the United States, all of which, in a greater or less degree, have affected the company prejudicially. Under these circumstances, the selling prices of iron have declined to a most serious extent, and that without any material change taking place in the cost of production. Labour, the chief element in cost, has maintained its price, and the trade generally have as yet done nothing to correct the anomaly. It has been the custom of this company to make no change in the rates of wages except in conjunction with other ironmesters, but upon this occasion it was found to be useless to wait for co-operation; and in September last notice was given to the workmen in the company's collieries and iron-works that a reduction at the rate of 10 per cent. would be made. The court of assistants hoped that the intelligence of the people would enable them to see that this step was both just and necessary, and that they would, therefore, cheerfully acquiesce in what was inevitable; but owing to evil counsels, or, more probably, to intimidation by that bane of all honest and respectable workmen—a trade union, the terms offered were refused, and for nearly ten weeks the collieries and iron-works remained id stands at 6159f. 18s. Id., and will be written off in this and the two succeeding years. Since last year the court of assistants have had to allot 1250f. in stock in settlement of a liability of the old coronany, and they have brought up and extinguished the sum of 1451. 18s. 9d., in order to reduce the whole amount of this class of stock to exactly 300,000f. When the preference capital was being raised it was stated that this term might reach 350,000f., but, as it has since been explained, it is not likely much to exceed its present amount. The plan proposed at the last annual court for the extinction of the debt then due upon the Cwm Avon church and schools was so far successful that it. Eff the sum of 84f. 18s. 9d. only to be raised; this deficiency has been men by the members of the court of assistants. Although the court of assistants have not the gratification of the outstand of the court of assistants have not the gratification of the court of assistants. Although the court of assistants have not the gratification of the company, which they believe is better prepared than it has been at any previous period to meet the adverse times which it may yet have to pass through. They treat that such times may be of short duration, but long or short, it will be there endeavour so to conduct the affairs of the company that the full benefit may be reaped of any improvement in the company's trade, whenever such shall take place.

The SECRETARY then read the auditors' report, which stated that they had examined the books and accounts of the company at Cwm Avon and in London for the year ending Jan. 28. The cash payments were duly vouched, the quantity of stocks had been certified as carefully weighed and estimated, and the abstract of accounts, which had been printed and circulated, they had found accurately prepared from the books. The valuation of the various stocks, which had been made up by the court of assistants, appeared to them to be generally based upon the depressed atte of the market at the time of stock-ta

Mr. Gar (the deputy governor) then proposed that the Governor's speech and the additors' report be entered upon the minutes.

Mr. Hankar seconded the proposition.

Mr. Gilbertson, see Additional Control of the Contro

Mr. Gay (the deputy governor) then proposed that the Governor's speech and the auditor's report be entered upon the minutes.

Mr. Hankan seconded the proposition.

Mr. Hankan seconded the proposition.

Mr. Gilbert server serve

also remind the hon. proprietor that their last manager did not possess any practical capacity for any one department, being a lawyer, but still he discharged his duties most efficiently.

Mr. Samura Baker thought all questions of details, both as to how they were to be managed and by whom, were matters which should be left entirely with those to whom the company's affairs were entrusted, in whom be had the most implicit confidence; but to his mind the most important question for them to consider was what was the best course to be adopted for the future—whether it would not be prudent to reduce for the presentitie expense at the works by employing less people, and so forth.

The Chairman replied that there were certain standing charges which must be kept up, and, therefore, the more work that could be done the less were those charges upon the work accomplished. The great object of the court was to conduct the company's operations as cheaply as possible, and proprietors must not forget the present year was the first out of nine that they had not had a dividend at the rate of 7½ per cent. If proprietors would only look back to the time when the company resumed operations, they would find that iron was then at as low a point in value as it had been for many years. If things would become very great, and the value proportionately increased.

Mr. Baker enquired if the court contemplated a large expenditure upon improvements during the current year?—The Calmanan replied they did not contemplate such extra expenses would exceed 400t. or 500t.

Mr. Halsuwoop reminded the proprietors that a large portion of the expenses already incurred would be the means of creating a profit upon certain departments.

The Chalmanan, in answer to a question, said that the company were realising a small profit upon the work in which it was at present engaged.

Mr. A. Barttie (one of the auditors) bore testimony to the efficient manner in which the whole of the company's affairs were conducted by the present manager. As he (Mr. Beattle) wa

FOREIGN MINES.

FOREIGN MINES.

Copiapo.—Checo Mine: The winze sinking under the 30 fathom level, west of Price's shaft, is down-2 fathoms; we have gone this depth through attle, and I very much fear we shall be obliged to abandon it altogether, as we have water in the bottom, and the sides are exceedingly weak and heavy. We have driven a bar of Iron nearly 3 fathoms down from the present bottom of the winze, but cannot meet with any whole ground, which shows that we have attle down near the back of the 40. The lode in the 40, west of Price's shaft, is at present small, and of little value. We have been for a long time expecting a banch of ore in the end, but our expectations as yet have not been realised. It is evident that the level above was rich; the lode, too, was large. The lode in the rise in the back of the 40 west is much the same as when last reported on, but I am daily expecting attle here as well. The lode in the winze sinking under the 40 west is 2 feet wide, worth 1 ton of 17 per cent. ore per fathom. The lode in the stopes in back of the 30 north is 2 feet wide, producing 12 per cent. ore. The lode in the shopes in back of the 30 north is 2 feet wide, producing 12 per cent. ore. The lode in the chifion sinking in the western and of the set is at present poor. We have commenced to sink a chifon under the 10, in the western part of the mine; the lode as present is unproductive. This place was worked some time ago for sliver, but at present is unproductive. This place was worked some time ago for sliver, but at present is unproductive. This place was worked some time ago for sliver, but at present is unproductive. This place was worked some time ago for sliver, but at present is unproductive. This place was worked some time ago for sliver, but at present is unproductive. This place was worked some time ago for sliver, but at present is unproductive. This place was attributed to the lode, the contract of the lode in the state of orce. On the whole, I am sorry to inform you the mine is exceedingly poor.—A. Astrony.

East Kongsberg.—Mr. Rordam, March 26: The find of silver in Sundse Mise is not yet rich, but better than last report; and experience tells us here that when a vein bears silver, as in this case, it aimost invariably proves remunerative, and is sure to pay largely for working. The mine is well situated for mining operations, water being near and transport cheap. The existing shaft is well planned for economical working, being regular and sufficiently large. The mine is but a few fathoms deep. Mr. Sill, director for Kongsberg Silver Mines and inspector of the mines in south-castern Norway, has been with me to-day visiting our mines. The southern vein in Ramsrund he tried in a level towards the west, and found it very favourable, having an appearance of giving silver shortly. I am going to give Mr. Sill a report of the Anna Sophia district, as to all workings here, from June, 1860, until the present. I hope, besides, to send you the promised general report, and hope it will be approved; this report will contain the months of January, February, and March of this year. I have received the money from the bankers, and shall pay the workmen on the 30th. The accounts shall be sent next week. I send a plan of Anna Sophia adit and mine; you will there see that the mine is too large to think of covering in the whole opening. We must go on with covering one of the ends, I think in that part of the mine where the adit is ending. The opening between the two stolls, or adits, is now fully enlarged, and this week the workmen are going to clear out the last part of the stoll marked A daout 15 fms. In length). At the point marked B a great quantity of timber has to be taken out. When this is done we must immediately go on to prepare the stoll for a railway. It would be well if you could send us the rails from England to lay down the whole length of the adit, about 120 fms. I beg to inform you that I have ordered the timber for working the Anna Sophia; this will angment our expenses for April and May. We must also now build up hou EAST KONGSBERG .- Mr. Rordam, March 26: The find of silver in

LUSITANIAN.-Palhal Mine, March 25: Basto's Lode: The lode in LUSTTANIAN.—Fainal Mille, Marcil 29: Dissus a large: And the following the local in Taylor's shaft, below the 50, has not been taken down since our last. The lode in the 50, east of Taylor's shaft, is 2 ft. wide, of quartz. In the 50, west of Taylor's shaft (in the cross-cut), we have gone through one branch about 4 in. wide, of flookan, but we think there is still one more. The lode in the 35, west of Taylor's shaft, is 4 ft. wide, worth 1½ ton per fathom.—Levels East and West of River Shaft: The lode in the 50, west of this shaft, is 2½ ft. wide, of quartz, and stones of copper ore. The lode in the 28 east is 3½ ft. wide, of quartz, mundic, and small stones of ore. The lode in the 28 is 3½ ft. wide, of quartz and lead, worth 4 cwts, of the latter per fathom. The lode in the 8 is 1½ ft. wide, comwest of this shart, is 2½ ft. wide, of quartz and mundle. The lode in the 38 east is 2ft. wide, of flookan, quartz, and atones of copper ore. The lode in the 28 east is 3½ ft. wide, of quartz, mundle, and small stones of ore. The lode in the 18 is 3½ ft. wide, of quartz and lead, worth 4 cwts. of the latter per fathom. The lode in the 8 is 1 ft. wide, composed of flookan and quartz, with spots of lead. The lode in the 3is 1 ft. wide, composed of flookan and quartz, with spots of lead. The lode in the aftic, east of Pirots shaft, is still unproductive. The lode in the adit, west of Perex whim-shaft, is split into branches, which are producing stones of ore. The lode in Nunex winze, below the adit, east of Perex whim-shaft, is split into branches, which are producing stones of ore. The lode in Nunex winze, below the adit, east of Perex whim-shaft, is split into branches, which are producing stones for some content of the stopes No. 2, in tack of the 50, west of Tenesto's winze, is worth 1 ton per fathom. The lode in the stopes No. 3, in bottom of the 28, east of Clondino's winze, is worth 1½ ton per fathom. The lode in the stopes No. 4, in bottom of the 28, west of Clondino's winze, is worth 1½ ton per fathom. The lode in the stopes No. 5, in back of the 35, east of Clondino's winze, is worth 1½ ton per fathom. The lode in the stopes No. 5, in back of the 30, west of Taylor's engine-shaft, is worth 1 ton per fathom. The lode in the stopes No. 5, in back of the 30, west of Taylor's engine-shaft, is worth 1 ton per fathom. The lode in the stopes No. 5, in back of the 30, west of Taylor's engine-shaft, is worth 1 ton per fathom. The lode in the stopes No. 5, in back of the 30, west of Taylor's engine-shaft, is worth 1 ton per fathom. The lode in the stopes No. 5, in back of the 30, west of Taylor's engine-shaft, is worth 1 ton per fathom. The lode in the stopes No. 10, in the bottom of the 31 the shaft, is 1 the lode in the 18, west of the caunter lode, is 1½ ft. wide, of flookan and stones of ore. The lode in the s

shaft, in the 40, is of the same nature as it has been. In about 2½ fathoms driving this cross-cut south we hope to cut the House lode. The ground in the 50 cross-cut, south of River shaft, is hard, but the men are making fair progress. The ground in the level driving from the river to the 30-ft. wheel is hard, but we are getting on satisfactorily, and we hope in about ten days more to hole to the wheel-pit.—Carvainal Mine: The lode in the adit level, west of the River Caima, is 3 ft. wide, of quartz and mundic, impregnated with copper, but in a very small degree. The lode in the costean pit, on the eastern hill, is 3 ft. wide, of quartz. We are opening on another lode on the western side of the River Caima, which is about 2½ ft. wide, underlying north about 2 ft. erg. findom, and its composition is quartz and stones of mundic; should this lode be found worthy of trial we shall have a back of nearly 40 fms. in driving an adit level 100 fms. on the course of the lode into the hill.

PONTGIBAUD.—W. H. Rickard, April 2: Our dressing operations have sen extrict on with much virour and perseverance, and the result is a good sampling carried on with much vigour and p

Markiquita.—Santa Ana Mine, Oct., Nov., and Dec.: Cost, \$31,584; returns, \$29,082.—Dec. 7: In the 100 fm. sink some stones have been met with, containing above an inch solid thickness of grey and red silver, indicative of a good lode in the 110 when driven a short distance further north.—Jan. 9: The new shalt now communicates with the 90, and they are now sinking below it: the ventilation of the mine is hereby much improved. The shaft is cut down full size, and secured to the depth of 41 fms. below adit. The skip-roads are now being fixed in it.—Jan. 14: Santa Ana is a rich and valuable property.—Marmato: Nov. and Dec. cost, \$15,885; returns, \$16,213.—Purima: Nov. and Dec. cost, \$1510; returns, \$1775.

arich and valuable property.—Marmato: Nov. and Dec. cost, \$15,835; returns, \$16,213.—Purima: Nov. and Dec. cost, \$1610; returns, \$1775.

UNITED MEXICAN.—Guanaxuato, Feb. 23: Jesus Maria y Jos.: I have little to state since my despatch of the 16th inst. as regards the works in this mine. The fluctuations have been slight; merely that the frente of La Trinidad may be considered not quite so good, whilst that in the cross-cut of La Providencia is still better than before. The level of San Andres (considerably above the works of San Pantaison, and to which it is hoped the body of good ore will extend) is going on actively, in favourable vein stuff. The level of San Rafael, at about an equal distance below, is also being driven forward as a work of exploration. The profit made in January was \$8797; but, as the value of a considerable portion of the ore extracted has not yet been realised, the profit will be about double that sum. In the last four weeks the sales of haclenda ore (that extracted by day miners) have produced \$23,354, the whole to the credit of the mine; and the buscones' sales have given \$9007, half on the mine account. These latter sales, it will be observed, are falling off, and it may probably be well to discontinue them as soon as we can further augment the haclenda sales. The extraction by day miners has been 8044 cargas in the four weeks, of which 3131 cargas have been received at the haclendax for reduction, and 2700 cargas sold. We are now taking the rasps for gold at Dolores, and no doubt it will prove the most valuable yet produced. It is understood that a conducta will be dispatched from hence early in April, when I shall remit to England about \$30,000—it may be more.—La Trinidad: Two frentes in the direction of Jesus Maris are being driven, but little ore has yet been found.

Pachuca.—Capt. Paull, Feb. 22: At present we are securing the old

in the direction of Jesus Maria are being driven, but little ore has yet been found.

PACHUCA.—Capt. Paull, Feb. 22: At present we are securing the old shaft at San Luis, and opening the whim-round, which will be completed next week. We shall then commence clearing the shaft to bottom, which must be at least 60 varas deep, of which 43 varas are clear, according to old reports. The shaft is 80 varas deep, and a level driven towards the Viscaina lode. At Santa Elena we have driven during the three weeks of this month 8½ varas in San Juan level, and 9½ varas in the adit level; in both levels we have cut the south part of the Viscaina lode, and we are driving on the same east. The ground is favourable for driving, and after driving a few more varas we intend to cut through the lode to the north or footwall; the lode at present is composed of quartz tabones, with a great quantity of bronco (mundic), with pintas of metal. In San Juan level the lode is more settled than in the adit, as it is farther east and 20 varas deeper, and from its present appearance I am expecting to meet with metal every day. In Las Animas winze the lode is getting more compact, the ground is a little harder; consequently they can only sink from 1½ to 1½ vara weekly. I brought up some samples; which by the tentadura (van made in a dish) I made I expect contain silver; I will try and get it assayed next week. There are lodes close to the north, and according to the underlie must some come in the winze; there are also veins to the south which can be intersected by a short cross-cut from the bottom of the winze, which is now nearly 30 varas below adit.

English and Canadian,—F. Bennetts, jun., March 8: Morrison's Adit-

which can be intersected by a short cross-cut from the bottom of the winze, which is now nearly 30 varas below adit.

ENGLISH AND CANADIAN.—F, Bennetts, jun., March 8: Morrison's Adit: The level east of No. 2 shaft has been extended 4 fms. 4 ft. 4 in. In the latter part of this drivage we have met with several small branches, composed of quartz and peaching a lode: this end is re-let to six men, to drive for March, at \$62 per fm.—Sewell's control of the month the lode was large, but poor. There was, however, a branch met with coming out from the eastern wall of the lode; since which I am glad to say it has been gradually improving, and is now yielding very good saving work of grey copper ore. We have re-let 6 ft. to drive by two men, at \$72 per fm.—Adit Level South, on Sewell's Lode: In putting a stope over the back of this level, in the former part of the month, we obtained but a comparatively small quantity of copper ore, we, therefore, set the men to rise at \$64 per fm.; they rose I fm. 3 ft. \$1m., and the lode has improved, yielding very good saving work, with very appearance of a still further improvement—re-let to have cannot advantageously work this during the present severe weather, in consequence of the railroad continually freezing up, we have suspended any further stoping till the spring is further advanced.—Hall's Lode: We stoped in the bottom of this level 3 fms. I ft. 4 in. of ground, and obtained about 301. worth of copper ore. As we cannot advantageously work this during the present severe weather, in consequence of the railroad continually freezing up, we have suspended any further stoping till the spring is further advanced.—Hall's Lode: We stoped in the bottom of this level 3 fms. I ft. 4 in. of ground, and obtained about 301. worth of copper ore. As we cannot advantageously work this during the present severe weather, in consequence of the railroad continually freezing up, we have suspended any further stoping till the spring is further advanced.—Hall's Lode: We stoped in the bottom of fits

met with, being cherry the years supinites.—Pressing: In this supartment was the continue getting the ore stuff in readiness for washing in the spring.

WEST CANADA.—Capt. Plummer, Feb. 25: Hurron Copper Bay Mine: The lode in the level going west of the new shaft continues to be productive, and has a very favourable appearance; the lode in the level east is not quite so large and orey, but no doubt will improve as we advance. We are compelled to stop the new shaft on account of its being very wet, which prevents the men working there during this sold season, but we shall resume work again as soon as the weather gets warmer. Palmer's shaft is being sunk with the usual progress, and the lode holds good. The lode in the level going west of this is large, and very good, yielding from 4 to 5 tons to the fathom. To the east of this shaft the level and stope are going on as usual, yielding an average quantity of ore. The stope in Bray's yields 3 tons, and the stope west of Jenning's 3 tons to the fathom also; each of those places are looking favourably.—Wellington Mine: The stopes throughout the mine are looking about as usual. The stopes east and west of Genzieli's shaft are yielding upon an average 2 tons per fathom. Crase's is poor. The lode in Hooper's shaft yields 2 tons per fin. The lode in Knight's shaft we have not been able to take down the principal part of it. But we anticipate as soon as we are able to do so that we shall find a good lode. We are making good progress in sinking the shaft, and we cannot observe any increase in the water. The stope west of Grenfell's shaft, on the Fire lode, yields 2½ tons per fathom; and the lode in the level to the west of this is much the same. The lode in the level west of Colling's shaft (Fire lode) is improving.

is improving?

CLARENDON (Jamaica).—J. Martin, March 4: Stamford Hill Mine: The lode in the shaft sinking below the \$2 is 3 ft. wide, consisting of prian, light killas, and red clay; the men are making good progress in sinking. The lode in the \$2, cast of cross-cut; is about 4 feet wide, and worth about ½ ton of ore per fm.; I have put six men in this end, so as to push on the driving, to get to the cross-course, which is about 9 fms.; therefore, I have stopped the driving west for the present, and put the six men cast, as stated above. The lode in the wast end is 3 feet wide, and worth ½ ton of ore per fm. I shall resume the driving again, as soon as we get away east a little; this lode is a very kindly looking one, and likely at present to make a great deal of ore in depth. The lode in the 70, west of shaft, is 4 ft. wide, composed of porphyry, clay, and sometimes stones of ore, but you will remember that this is not the same lode as we have at the \$2, where we have the ore, the one at the \$2 being further north. I have dialled the levels from the 46 to the \$2, and shall sy it down on paper at once, when we shall see more about it. The ground in the cross-cut north-west at the 46, to cut the Charing Cross lode, is still better for driving. I have commenced to dress some of the ore for shipment to England. The pumps and machinery work well, and all other parts of the mine are going on favourably.

NERBUDDA COAL AND IRON.—The following intelligence has been re-

arts of the mine are going on tavourably.

NERBUDDA COAL AND IRON.—The following intelligence has been reeived from the agents in India:—At No. 1 level I am in very good coal, of which I am
aising about 1 ton daily, and pushing on the level at the rate of about 2 yards weekly.
the pit is also going on slowly, and as soon as I receive the tools, &c., now due in ciutta, I shall be in a position to propose a contract for coal to the railway company

THE FUTURE OF COAL.—The British coal fields cover an area of 5400 THE FUTURE OF COAL.—In the British coal neigh seed an area of 9400 square miles; but those of this country cover 196,600 square miles, in addition to which now fields of great extent are being constantly discovered. England feels no alarm at any prospect of her coal fields not holding out, and this country ought to be equally confident of her inexhaustible supply. The quantity mined in England has generally doubled every 25 years, but in this country, from 1839 to 1849, it doubled itself every five years, and it continues to grow at a far more rapid rate than it does in England. The whole annual consumption of the world is estimated at 100,000,000 tons. Now, we see that this west martity is constantly increasing. If it remained attiousary at that fluxes, the annual consumption of the world is estimated at 100,000,000 tons. Now, we see that this vast quantity is constantly increasing. If it remained stationary at that figure, the Pennsylvania coal fields alone would honour the draft for 3174 years. Double it, and the great Appalachian field would meet the demand for 6937 years. Extend it 400,000,000 tons annually, and the productive coal fields of North America alone would be able to supply the world for 10,000 years. It is a wonderful feature in the great coal deposits, that Providence has located the most abundant ones in the coldest countries, where fuel is most required. Even Spitzbergen contains her share. This does not prove, however, that coal does not exist abundantly in Central America, or in Central and Northern Asia. The presumption is that future explorations will uncover deposits in those countries equal to the necessities of their inhabitants. But geology has determined the great fact that the coal mines of the United States will be certain to hold out.—New York Tribune.

ARTHEIGHAL PROVINCENT

ARTIFICIAL PRODUCTION OF THE DIAMOND.—It is reported that true diamonds have been artificially produced in a chemist's laboratory. Most readers are aware that diamonds are simply carbon in its purest form; they differ from charcoal only in being crystalised. Many attempts have been made to produce them by artificial means; the attempt under notice was made by M. Rossi, of Toulon. He placed certain quantities of water, phosphorus, and bisulphide of carbon in a vessel, which he then closed up, and left undisturbed for several months. On opening it, crystals, having the appearance, and possessing all the properties, of vertable diamonds, were found to have been formed. They were of the true diamond shape, though exceedingly small, were of considerable brilliancy, and were hard enough to cut glass.

HOLLOWAY'S OINTMENT AND PILLS-HEART'S ACTION.-The slightest irregularity in the hear's function is felt throughout the entire system. Any obstruction to the regular impulse of that organ must be removed without delay, or the whole circulation becomes disordered; palpitation comes on, to be succeeded by damparticles. In a multitude of cases these symptoms arise from a stomach distem fatulencely, and are cured by rubbing Holloway's olutiment over the pit of the side and right side, and occasionally, likewise, over the heart and chest. It speedily rethe barassing, throbbing pulsation. Holloway's pills should be taken at the same to remove any accumulation from the alimentary canal, and to carry off any any iving -cut, nd in atis-line; ndic, it, on

. per

have 84;

may still Pan-lvely, ow, is been ales of the count. ell to been ag the luced. then I rentes

e old week.

more sent is stas of er east metal d is a rought ontain h, and

Adit: part of peach; roach-ewell's earlier

spring t. 4 in.

Mine: d has a ey, but on ac-his cold almer's e in the fathom.

Mine :

t killas, 82, east put six a about six men n of ore e; this ore in

en re-

5400

ure, the e it, and and it to e would reat coal suntries, ot prove, trai and costs in ermined t.—New

at true ders are charcoal artificial certain in closed

ightest obstruc-e whole

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABERDOVEY.—A. Eds: The ground in the engine-shaft is still hard and difficult for sinking; it is now about 8 fms. under the 32. The south lode in the 32 is 4 ft. wide, producing \$\frac{1}{2}\$ (in of ore per faithern and a very thirdly icles. The stopes in the back of this lewsl, on the same lode, is producing about \$\frac{1}{2}\$ (in per faithern.) The stope on the producing \$\frac{1}{2}\$ (in of ore per faithern and a very thirdly icles. The stopes on the law of the producing \$\frac{1}{2}\$ (in oscill) had \$\frac{1}{2}\$, on south lade, about \$\frac{1}{2}\$ (in oper fin. The surface operations are going on favourably.

ALFIED CONSOLS.—S. Urso, T. Ricking, April 3: Nothing new in Davey's engine-shaft, sinking below the 150, or in the 150, diving east of the share, and shaft, is 5 ft. wide—engroducitve. The main tode in the 150, driving east of the above shaft, is 5 ft. wide—engroducitve. The main tode in the 150, driving east of the above shaft, is 2 fet wide, worth 4: per fin. The north branch, driving west of creas-cut at the 130, produces stones of ore, but not to value. Schoel the control of the 150, is worth 151, per fin. Schoel the 150, is worth 151, pe

In mixing policy. Surface and demonstrating operations as used.

Section 2014. And the policy of the materix appearance. In the 80 we are origin; west by six men, and also driving east by four men, where the lode presents a promising appearance, and from the indications the state of the granite seems to be improving, which bide fair towards the features of the mine.

BULLER AND BEHTHA.—T. Foot, April 2: The 45 east has been driven 8 fms.; the lode for this drivage is accompanied by spar and mundic, with occasional stones of ore, but in the end it is 2: it, wide, composed of peach, mundic, spar, kills, and stones of ore, but in the end it is 2: it, wide, composed of peach, mundic, spar, kills, and stones of responsible of the end it is 2: it, wide, composed of peach, mundic, spar, kills, and stones of responsible of the end it is 2: it, wide, composed of quarts and mundic, carrying on the north walls a small branch the ground is also become firmer, and we hope for a favourable change shortly. We have commenced driving south at the 45, for the intersection of the south lode.

CARMARTHEN UNITED.—B. Sanders, E. Toy, April 2: During the past month the following work has been done:—The 32 morth has been driven 5 fms. 5 ft. stoped in back of the samelevel 10 cubic fms. The 22 couth has been driven 8 fms. 5 ft. stoped in back of the samelevel 10 cubic fms. The 22 couth has been driven 8 fms. 0 ft. 6 in.; and the 22 north driven 2 fms. 2 ft. We have also had four men cutting clastern-plat and other work in the engine-shall, preparatory to fixing our new-linch pineper-lift. Section 10 ft. 10

4 ft. below the 65, and is in a good course of sinking by six men. The lode in the 56, or deep addit sevel, going east of Taylor's shaft, is 2 ft. wide, composed of spar, blende, and sticky-slate, with spots of lead ore, but nothing to value; this level is being pushed on by 5 four men. The lode at the pitch over the 65 fm. level, 50 fms. east of Taylor's shaft, is 2 ft. wide, yielding 10 cwts. of lead ore per fm. The pitch over this is circle, 40 fms. east of Taylor's shaft, is 2 ft. wide, producing 7 cwts. of ore per fm. The pitch over this is circle, 40 fms. east of shaft, is 3 ft. wide, producing 7 cwts. of ore per fm. The pitch over the first the same level, 30 fms. west of shaft, is yielding 10 cwts. of ore per fm. The pitch over the first the same level, 30 fms. west of shaft, is yielding 10 cwts. of ore per fm. The pitch over the first the same level, 30 fms. west of taylor's shaft, is producing 5 cwts. of ore per fm. The pitch over the first the same level, 30 fms. west of taylor's shaft, is producing 5 cwts. of ore per fm. The pitch over the first the same level, 30 fms. west of taylor's shaft, is producing 5 cwts. of ore per fm. The pitch over the first the same level, 30 fms. west of taylor's shaft, is producing 5 cwts. of ore per fm. The pitch over the first the same level, 30 fms. west of taylor's shaft, is producing 5 cwts. Of ore per fm. The pitch over the first the same level, 30 fms. west of the first the same level, 30 fms. or the first the same level, 30 fms. or the first the same level, 30 fms. or the same level,

EAST GUNNIS LAKE AND SOUTH BEDFORD.—J. Phillips, April 4: We are still driving by the adds of the lode in the 3th. The lode in the winne in bottom of the 3th from 10 11 ft. wisk, worth 5 show of copper oper fin. The slope in bottom of the 2st fine the 10 11 ft. wisk, worth 5 show of copper oper fin. The slope in bottom of the 2st fine the 10 11 ft. wisk, worth 5 show of copper oper fin. The slope in bottom of the 2st cont. We are driving by the side of the lode in the 3t. The lode in the deep all tired and is 3th. with composed of manufactures of the 2st cont. We are driving by the side of the lode in the 3t. The lode in the 6th cont. The 1st cont. The

be seen in the county of Cornwall.

GREAT WEST SETON.—H. Cowling, April 3: The men are still employed clearing the staff that was thrown into the engine-shaft. I expect to be able to get into the adit end, on the main lode, some time next week, when I will furnish you with the particulars about the lode, &c. Some of the old company say that if we drive this level towards West Wheal Seton it is very likely we shall meet with copper, it being rising ground in that direction. It is also stated that most all of the rich courses of ore in West Wheal Seton are making towards our mine, and improving as they excavate west-ward. I am told that eight men in this mine broke 255 tons of copper ore in one month, which was ampled at their last sampling-day. Visitors to our mine are very plentiful, such as gentlemen, working miners, and mine agents. There appears but one opinion to exist, that is, we have a rich piece of mineral ground, that it will make a very good mine, and that not very deep before we meet with the ore. The sconer you can get the mine drained and sunk a little deeper the sconer you will meet with the riches.

GREAT WHEAL ALFRED.—W. Bugelhole, J. Delbridge, April 3: Copper-House

GREAT WHEAL ALFRED.—W. Bugehole, J. Delbridge, April 3: Copper-House Shaft: The north part of iode in the 220 west is 4ft wide, composed of fluor-spar, capel mundle, tin, and vellow comper ore, worth 201, par for . the atom to back of this level. mandic, tin, and yellow copper ore, worth 200, per fin.; the stope in back of this level east is 5 feet wide, worth 171, per fin. The south part of the idod in the 210 west is worth 191, per fin.; the principal part of the idod is till standing north, and is worth 201, per fin. The lode in No. 1 winne, sinking below this level, has made a splice, and we think the main part of the lode is heaved south; the lode in the winne is worth 201, per fin.; we shall strip down the south part during the present week, and shall report on it next week. The lode in No. 2 winne is worth 201, per fin.; the lode in No. 2 winne is worth 501, per fin.; No. 4, 244, per fin.; per fin.; No. 2, 251, per fin.; No. 3, 254, per fin.; No. 6, 191, per fin.; No. 5, top, in bottom of this lovel, west of Kemp's winne, is worth 101, per fin. We have cut into the north part of the lode in the 190, east of the latter winne, is worth 101, per fin. We have cut into the rorth part of the lode in the 190, east of Painter's shaft, west of cross-cut; is 5 feet wide, worth 101, per fin. The lode in the 190, east of Painter's shaft, west of cross-cut; is 5 feet wide, worth Lode: The lode in the winnes sinking below the 137 fin. level, west of Copper-house shaft, is worth 171, per fin.

ahaft, is worth 171. per fm.

GREAT WHEAL FORTUNE.—J. Damiel, E. Pryor, J. Hoskin, March 27; Old Mine:
In the 85, east of Harvay's engine-shaft, the lode is 4 ft. wide, worth 81. per fm.—North
Lode: In the 60, west of the cross-cut, the lode is 1 ft. wide, worth 101. per fm.—North
Lode: In the 60, west of the cross-cut, the lode is 1 ft. wide, worth 101. per fm.—Carnmeal: Painter's engine-shaft is resumed sinking below the 62. In the 68, east of Painter's, the lode is 4 ft. wide, producing a little tin. In Hoskin's fast-rod shaft, sinking
below the 63, the lode is 4 ft. wide, worth 101. per fm. In the 58, east of Hoskin's, the
lode is 3 ft. wide, producing rich stones of tin; in the same level, west of shaft, the lode is
4 ft. wide, worth 302, per fm. In the stopes in back of this level, west of Hoskin's,
the lode is 5 ft. wide, worth 301. per fm. In the winne sinking below the 48, west of
Hoskin's, the lode is 3 ft. wide, worth 401. per fm. In the best of Hoskin's, the
lode is 3 ft. wide, worth 301. per fm. We have forty-three pitches working, employing
101 men, at tributes varying from 7s. 6d. to 16s. in 14. Other parts of the mine are without change to notice. We raised last month 22½ tons of tin. We sold on March 9,
7 tons 11 cwis. 2 qrs. 10 lbs. for 5771. 15s. 5d. We have sant to the smelting-bonse to
day between 18 and 18 tons. We sampled yestemay 8 tons of copper ore for the next
western sale, of good quality.

GREAT WHEAL MARTHA.—H. Rickard, April 3: The 46, cast from eagins-shaft.

western sale, of good quality.

QREAT WHEAL MARTHA.—H. Rickard, April 3: The 60, cast from engine
s much the same as last wesk.—a good over lode; the same level west is without

The 29, west from Thomas's, is producing ore of good quality, worth 51, per ton, ng 3 tous per fin. The tribute department is much as usual. I hope to commerce the ore to crusher in a day or two. The prospects of the mine are of a first-

GREAT WHEAL VOR UNITED.—Thos. Gill, April 2: In the 122, driving letal engine-shaft, the lode is 314 feet wide, worth about 601 her ferlows. GREAT WHEAL VOR UNITED.—Thos. Gill, April 2: In the 122, driving east of Metal engine-shaft, the lode is 3½ fest wide, worth about 60), per fathout. In the 152, driving east of Metal engine-shaft, the lode is 3½ ft. wide, worth 122. per fm., and looks very promising to improve shartly; in the 132, driving west of Metal engine-shaft, the lode is 4 ft. wide, worth 202. per fm. In the 142, driving west of Metal engine-shaft, the lode is 1½ ft. wide, worth about 302. per fm.; in the 143, driving west of Metal engine-shaft, the lode is 3 ft. wide, worth about 302. per fm. In the winze sinking below the 132, east of Metal engine-shaft, the lode is 3 ft. wide, worth 1502, per fm. Our stopes in the back of the 132 are yielding much the same is last reported; we have not intersected the lode in Metal engine-shaft, but expect to do so shortly. All our machinery its working well.

WORING Well.

GWYDYR PARK CONSOLS.—W. Smyth, April 4: We have this week taken do
be lode in the deep adit level end; it is bigger, with a rather sudden turn to the for all, which I consider more promising, and since last reported on there is more lead
it. The lead ore sold to Messrs. Jenkin Brothers will be shipped on Saturday.

wail, which I consider more promising, and since last reported on there is more lead ore in it. The lead ore sold to Messrs. Jenkin Brothers will be shipped on Saturday.

HAWKMOOR.—J. Richards, Joseph T. Phillips, April 2: The lode in the engine-shaft is 3 feet wide, composed of quartz, capel, mundic, and spots of copper ore. Having reached the required depth for an 80, the sinking of the shaft is asspended, and the men are engaged putting in sollar, &c., preparatory to driving an 80 fon. level, which will be commenced in a day or two. In the 60 east the lode is from 1½ to 2 feet wide, composed of quartz and mundle. In the 50 east the lode is found 1½ to 2 feet wide, worth 1 ton of ore per fin. In the 50 west the lode is of a very promising character, being about 2 feet wide, composed of quartz, mundle, and occasional stones of copper ore. In the stopes in back of the 50 east the lode is form a bout 2 tons of copper ore per fin. In the 10 east the lode is mall bout 2 tons of copper ore per fin. In the pitch in back of the 50 east the lode is from 2 to 2½ feet wide, and worth from 3 to 4 tons of copper ore per fin. In the 20 east the lode is small and poor. In the adit level driving west at West Hawkmoor, on No. 2 lode, the lode is amail but kindly.

HERODSFOOT.—T. Trevillion, April 2: The lode in the 137 end is still poor. The lode in the 127 end is 3 ft. wide, yielding 8 cwts. of lead per fin. The lode in the 117 end is 2 ft. wide, and will yield 3 cwts. of lead per fin. The lode in the 117 end is 3 ft. wide, and will yield 3 cwts. of lead per fin. The lode in the 116 is 3 ft. wide, and will yield 12 cwts. of lead per fin. The lode in the 116 is 3 ft. wide, and will yield 12 cwts. of lead per fin. Our 83 end is not driving. We have resumed driving the 12 ft. end and the lode in the same is 2 ft. wide, and yields 8 cwts. of lead per fin. Untractive the same is 2 ft. wide, and yields 8 cwts. of lead per fin. Start solve yourking in the back of this level, producing 10 cwts. of lead per fin. Our 83 end is not dri

our machinery is in good trim, and the mine throughout in first-rate working order.

HERWARD UNITED.—T. Pierce, March 28: In the 45 yard level, west of Dunsford's shaft, Martin's sump, which has been sunk below this level, has a little improvement the vein being 18 in. wide, composed of clay and lumps of ore, but we expect something better daily. In the 55 yard level, west of Dunsford's shaft, there is a little improvement at the forebreast of this level, more clay in it, together with a little spar, and the bed of stone underlie quite different to what they were before, and so we expect it to drog into the old Panty-PyGew vein. In the 80 yard level, west of Dunsford's shaft, the present forebreast is rather hard and stiff to cut, but we expect an alteration soon. In the 80 yard level, east of Dunsford's shaft, appearances are promising at present, the width of vein being 10 im, of spar and lead ore. Crosbie's vein is without any alteration since my last. All other parts of the mine are without the least alteration.

HINGSTON DOWN.—T. Richards, April 3: There is nothing new to advise you of

HINGSTON DOWN.—T. Richards, April 3: There is nothing new to advise you of his week in the underground department. We weighed on Friday last 301 tons 13 cwts. qrs. of ore, and the next sampling will be about 300 tons.

HUCKWORTHY BRIDGE.—J. H. Rodda, April 3: No change has taken place in my part of the mine this week. I would recommend driving a cross-cut south, and intract our side lodes.

tersect our side lodes.

KELLY BRAY.—S. James, March 30: The pitch in back of the 85 cast is worth 101. per fm. The 75 has improved as we proceed eastward towards the productive ground passed through at the 85; lode 2½ ft. wide, good stones of ore, with a kindly appearance. In the 45 we have a large lode, with a stream of water issuing from the end. No change to notice in the tribute department.—Eastern Mine: The 70 cross-cut is progressing satisfactorily. The lode in the 60 east is about 2 ft. wide, producing a quantity of mundic and rich copper ore—a kindly lode. We are daily expecting an improvement, looking at the favourable character of the ground, and the patches of elvan we meet with daily induce us to believe that the main clvan course will be shortly met with. We weighed off February ore—83 tons 20 cuts., and sampled March ore, computed 102 tons, of better quality than the last.

LALLY BEFERIA.—Cants. Harour and Metherell. April 4: Saturday last was our

We weighed off February ore—83 tons 20 cwts., and sampled March ore, computed 102 tons, of better quality than the last.

LADY BERTHA.—Capts. Harpur and Metherell, April 4: Saturday last was our setting day, when the different pitches and bargains were re-let, as follows:—The 63 east by six men, at 101. 10s, per fm. In this end we are still driving by the side of the Icde, the ground being a little more favourable than it has been. The 63 west by four men, at 162, per fm.; the lode in this end is large and hard, composed of quartz, peach, mundle, and spots of ore. In he 41 east the lode has a more more favourable appearance than we have seen it for some fathoms past; the portion which we are carrying is about 1½ ft. wide, and consists of mundle, peach, and some good stones of ore. This end is being driven by four men, at 111. per fm. Bern's cross-cut, driving south of the 41 west, is letting out a large stream of water, the ground being moderately essy, consisting of prian, peach, and branches of spar, intermixed with spots of mundle; driving by six men, at 91. per fathom. The stopes in the back of the 41 west, east of rise, are looking pretty well; lode from 2 to 3 ft. wide, composed of mundle and ore, worth of the latter 4 tons, or 201. per fm. In the 30 east no lode has been taken down lately; driving by four men, at 71. per fishom. Bayly's stopes, inthe bottom of this level, continue to produce much as usual, about 6 tons of ore, or 241. per fm.; six men are employed here at 31. 15s. per fm. In Crossman's wines, sinking below the bottom of the 20 east, we are at present going down by the side of the lode by six men, at 81. 5s. per fm. We have seven pitches, at an average tribute of 10s. in 11.

MAUDLIN.—W. Tregay, J. Tregay, March 30: In the 50 east the lode is large; no

31. 10s, per im. In Crossman's winze, sanking below the bottom of the 20 cast, we are at present going down by the side of the lode by six men, at \$2, 5s, per fin. We have seven pitches, at an average tribute of 10s, in 11.

MAUDLIN.—W. Tregar, J. Tregary, March 30: In the 50 cast the lode is large; no footwall in the end; the part carried is composed of peach, prian, and good stones of copper ors. In the 50 west the lode will produce 4 tons of black-jack per fathom, and a little copper ore; this appears to be continuing its course into the greenstone. A cross-cut has been set to drive south through the lode by two men. The pitch in back of this level is up into the gossan, and at present poor—not set. The best of the ore has all along been in the bottom of the level, where the ore ground has extended for about 10 fms. in length, but in the back only bunchy.—West Mine: In the adit end the branches are intersected, containing mundic and good stones of yellow ore. We expect to get a parcel of copper or ready for sampling in a fortnight.

MERLLYN.—Wm. Sandoe, April 3: In the cross-cut going east from Sandoe's shaft there is no change to notice in the ground, &··, during the past fortnight: the driving progresses fairly. In the stope in the bottom of the 16, south of Black shaft, the lode is 4 ft. wide, with a slight mixture of lead ore throughout, producing good dressing orestuff. At the new shaft, in the end going east on the new lode but little has been done since my last report, consequently there is no change to speak of. These men have been assisting in opening the lodge, securing the ground, fixing launders in the bottom of the lovel, &c., since which the sluking of the shaft has been resumed; we are down from 3 to 4 feet below the level. We have a little water in the shaft, but a present it does not particularly interfere with the sinking. The ground is of a most favourable character, which, if it continues, will enable us soon to get down 10 flux, deeper, where I expect to take the lode in the shaft, and f

is from 4 to 5 ft. wide, composed of carbonate of line, limestone, clay, &c., with also a mixture, and occasionally excellent is stones of lead ore, altogether a fine looking lode.

MOLLAND.—T. Bennetts, April 3: The lode in the 52 west is 2 ft. wide, composed of quartz and white tron, with a small quantity of yellow ore; the same lovel cast is cleared and secured, the lode in which is split up at present; set to six men to drive 1 fm. est and 1 fm. west, and 19, per fm. The 42 east is cleared and secured within 2 fms. of the present end, and by the end of this week I hope we shall see the end. The lode in the 32 east is looking much the same as last week, producing 1½ ton of ore per fm. I have not set anything here as yet this month; the men will clear their stuff first. The winze below this level being now cleared of stuff, the sumpmen are now securing the ground, which they will complete I hope to-morrow. The stopes in the bottom of the 20 east are worth 1½ ton per fm. We are, however, slaking a few feet toget deeper stopes; set to eix men, to sink I fm., at 91.

NANTEOS AND PERRHHW.—H. Houndy, W. Paull, April 1: Eystumtcan: The men are getting on very favourably in sinking the slaft below the deep adit. In the level driving west of No. 2 rise the lode is yielding 6 cwts. of ore per fm. The winze sinking below theceo's level, over the last-named point, is yielding 6 cwts. of ore per fm. Buckelyny: In the 30 end east the lode is 2 ft. wide, composed of mundic, blende, chy-slate, and spotted with ore throughout, altogether presenting a very promising appearance.—Pernhiw: The tribute in this part of the mine are yielding, on an average, from 10 to 12 cwts. of ore per fm.—Buckelyny: In the 30 end east the lode is 2 ft. wide, composed of mundic, blende, chy-slate, and spotted with ore throughout, altogether presenting a very promising appearance.—Pernhiw: The tribute in this part of the mine continues without any particular change to notice. Our machinery is working well, and everything is being pushed on as fast

machinery is working weil, and everything is being pushed on as fast as we possibly can.
NANTY.—April 3: On Saturday hast we set the following bargains:—The 6 fathom stope, north of long rise, to four men, at 2l. per fathom; yields 7 to 8 cwts. of ore per fathom. The 14 fathom stope, north of long rise, to four men, at 1l. 15s. per fathom; yields 1 to 12 cwts. of ore per fathom. Four men to drive north in the end of the 14 fathom stope, at 2l. 15s. per fm; yields about 10 cwts. of ore per fm. A stope in the south end of the 6 fathom stope, to two men, at 1l. 1s. 6c, per fathom; yields about 6 cwts. of ore per fathom. The 12 fathom level below the shallow adit, north of the long rise, to two men, to drive north, at 3l. 10s. per fathom; lode 3 to 4 feet wide; it has a good appearance in the forebreast, but we have not yet met with anything of much value. The rise in the back of the deep adit, 60 fathoms north of the long rise, we set to six men, at 64, per fathom; since Saturday there is an improvement, and we get good bunches of ore, but not regular. The cross-cut in the forebreast of the deep adit; suppended for a time; we cut into the lole, which consisted of spar, mundle, and a few spots of ore, but of no value; we moved the men to drive north in the end of the deep adit; there are a few spots of ore to be seen in the end to-day. We have now sent 18 tons of ore to Aberystwyth, and shall send 12 tons more as soon as possible to make up the 30 tons.

NEW TRELEIGH.—P. Pryor, J. Prince, jun., April 3: In the engine-shaft sinking

up the 30 tons.

W TRELEGIGH.—P. Pryor, J. Prince, jun., April 3: In the engine-shaft sinking r the 30 the lode is again improved, producing good stones of ore. The 80 east is reversed, and will produce full 2 tons per fm. We have also set the 80 west to which is producing a little ore. We have to drive at the 80 east about 10 fms., ch the course of ore gone done in the 70, which will produce 2 tons of good ore per m. We have again resumed the driving of this cross-cut, and from the appearance link we shall not have far to reach another lode. The stopes in the back of the via number, and not within 20 fathous of the end, will produce in all 10 tons per m. We shall increase our sampling for the same time as last not less than 70 tons, ter quality. frive, which is prod

of better quality.

NEW WHEAL FRANCES.—C. Carkeek, April 4: We expect to complete cutting down Dunsford's engine-shaft to the deep salft this month. The said shaft is sunk below sait 5 fms; is the lofe in the same is of much the same size and value as last reported. In the 10, west of Keverne's winze, we have cut a large stream of water, which has completely drained the shaft, and also the adit end, which is 22 fms. In advance of the 10, and 10 fathoms above; this we consider a good indication of our having a large and porous lode before this, the 10 end. This increase of water has impeded our progress to these two levels during the level.

barrels; but we have now fixed a hand-pump which we had on the mine, and have now
the ends in fail course of driving. The tode in the eastern end continues good, worth
about 501, per fathom; the lode in the east end is worth 101. In the deep adit west we
have signs of the civan course coming in this end; the lode is split into three branchs,
which appear to be uniting again as we advance; each branch is producing tin. I
think we shall have an improvement in this end as we get in the elvan. In the adit
cross-cut we have intersected a small branch, composed principally of quartz; I think
this is part of the lode. We shall get through it in a day or two, when I shall be able
to say more about it.

this is part of the lode. We shall get through it in a day or two, when I shall be solve to say more about it.

NORTH DOWNS.—F. Pryor, April 3: King's engine-shaft still continues to present good appearances, and as it leaves the indisence of the cross-course it is our opinion it will improve in value. In the 50, west of shaft, the lode is increased in size, and considerably improved in appearance. The stope in the back of this level, and west of the shaft, is worth full 40?, per fm. In the 50, east of shaft, the lode now taking down is 3 ft. wide, and worth 60?, per fm. The stope in the back of this level is worth full 30?, per fm.; this stope is a considerable distance from the end, thus proving this course of ore dips east. The winze sinking below the 40, west of shaft, is a little improved, worth full 5?, per fm. We have just cut through the lode in the winze called the sump-winze, east of shaft, and about 10 ms. in advance of the 60 end, which has been poor under the slide, and is producing fine stones of ore; we look for an early improvement at this point, which is important. No other change to notice. On the whole, we are looking pretty well. Our ore weighed off yeaterday 216 tons 3 cwts., realising 1883; 10s. 1d.

NORTH GREAT WORK.—J. Vivian, March 27: We have taken the stamps, with burning-house and dwelling-house attached, at 20, per year, and within a forthight we hope to be in course of stamping, and shortly after to take a good parcei of tin to the smelting-house. We have cleared the western whim-shaft to the 10, and a forth below with full as much speed as could be expected, and find the lode better than anticipated. Further particulars you shall have in the course of a fortnight or ten days.

NORTH LAXEY.—R. Rowe, March 30: The 27 end is again improving—worth ½ ton

NORTH LAXEY.—R. Rowe, March 30: The 27 end is again improving—worth 1/2 to the fathom. The new shaft will start to sink on Monday.

NORTH LAXEY.—R. Rowe, March 30: The 27 end is again improving—worth ½ ton to the fathom. The new shaft will start to sink on Monday.

NORTH MINERA.—W. T. Harris, April 4: Charles's shaft sinking below the 35 yard level continues worth 4 tons of lead per fim. The 35 yard level, driving east of said shaft, is worth 15 ewts. of lead per fim. The 35 yard level, driving east of said shaft, is worth 16 ewts. of lead per fim. The 35 yard level, driving east of said shaft, is worth 16 ewts. of lead per fim. The 35 yard level east are producing 2 tons of lead per superficial fim.: the stopes in bottom of the 25 yard level east are producing 15 ewts. of lead per fim.; this level driving west is getting into more congenial ground for lead. There is no other alteration in the mine since the meeting. We have sampled to-day, computed, 70 tons of lead ore.

NORTH NANT-Y-MWYN.—J. Thomas, April 3: I have just returned from the mine, and 1 am glad to report that we have cleared the western shaft and holed it to the level; we have found upwards of ½ ton of lead that has fallen from the backs of the old workings near the shaft. This is a proof that the lode made orn enryl up to the surface. In a few days we shall be into the western end, when we shall have whole ground, with 14 fims. of backs, and where I expect to rise more ore than will meet our cost, and prove what I have said in my former reports to be true.

NORTH WREY.—T. Kemp, April 4: We are making capital progress in sinking the main shaft, the ground being favourable for opening. In the 38 north the lode is not looking quite so well in the present end as when last reported on, having been disordered by a cross-branch; judging from the indications of the lode, and the character of the ground as the drivage proceeds under the hill, we shall very shortly be out of its influence.—Copper Lode: The two men are still sinking on this; it is altogether one of considerable promise, quite 10 ft. wide, and will, I believe, produce good ore in depth. I think it advisable to sink a li

and vigour. The wheel and machinery are in good order, and keeping the water with ease OKEL TOR.—W. B. Collom, April 3: There is a general improvement taking place in the various ends driving at the 50, 65, and 80 fm. levels; the crey part of the lode in the 80 is increasing very ranch in size since passing through the cross-course. In the 65 fm. level we are getting into the same run of ore met with in Ennor's winze, where the orey part of the lode made so large. The lode in the 50 end continues to improve which leads us to expect we are getting into another course of ore. In the bottom stops at the 50 the corey part of the lode is increasing also in size. Taking the various level driving, and the stopes in the 50, 65, and 80 fm. levels, they will average full 6 tons ore per fm. The prospects of the mine continue most encouraging.

OLD TOLGUS INTEED.—G. Reynolds. April 4: We hope to put the plunger which

ore per fm. The prospects of the mine continue most encouraging.

OLD TOLGUS UNITED.—G. Reynolds, April 4: We hope to put the plunger which
we have been fixing in the 60 to work to-morrow. We still continue to drive the 52
cross-cut, which is yielding water, and we consider the main part of the lode is still
ahead. The south lode, in the 52 west, is 2 ft. wide, letting out much water, and producing a little tin—driving by four men, at 5t. 10s. per fm. In the 42 west, on the same
lode, we are rising to communicate with the 32 by four men, at 8t, per fm.; the lode at
this point is 1 ft. wide, producing ½ ton of copper ore per fm., and also saving work for
tin. At present we have five pares of ributers working throughout the mine for tin, at
an average tribute of 12s. in 1t., and they are working well, getting fair wages. On Tuesday next we hope to sample from 12 to 15 tons of fair quality copper ore, and every point
throughout the mine is being forced on with vigour.

PEDN-AN-DREA UNITED.—W. Tregay, March 30: The lode in the 110 east and west is without change, worth 101. per fm. In the 100 east we have cross-cut about 6 ft. of the lode, which is worth 201. per fm.; the north wall not yet reached. In the winze in bottom of this level the part of the lode carried (about 6 ft. in breadth) is worth 501. per fm.; in the bottom of the winze the men are now employed bringing down a stope in order to reach the north wall. In the 90 ross-cut Skimmer's lode is cut, and cut into it about 3 ft., producing good quality tinstuff.

PENHALDARYA.—J.P me, April 3: We have completed the alteration in the pit-work, which is now working well, and shall commence sinking the engine-shaft to-morrow. We have also set the 50 and 30 north, but have nothing new to report on this week, as very little has been done on the lode. I will forward you a full report next week

morrow. We have also set the 50 and 50 north, but have nothing new to report on this week, as very little has been done on the lode. I will forward you a full report next week. PENHALE MOOR—H. B. Grose, March 26: We have cut the lode in the 30, which is found to be from 2 to 3 feet wide, composed of capel, mundle, quarts, and flookan, with good stones of tin, which shows us great improvement in depth; this lode being small and unproductive. In the 20 above, for some distance east and west of the cross-cut, we have about 4 fms. to drive to the north lode, which driving we have to-day set at 70s. per fm., the ground being wet and troublesome for going through; we shall put some men to open on the lode now cut as soon as the shaftmen can make room for them, and in a few fathoms driving east and west shall have the shoots of tin going down in the bottom of the 20. In consequence of there being so much water in the cast shaft, we are obliged to suspend the sinking, and have put the men to cut in from the 20, in order to meet it, which will be pushed on with all possible speed. The lode in the end of the 10 is disordered by a slide, which we are now driving through, and hope to moet with the lode again in a few days. The new lode west of the 10 cross-cut is improved in the last few feet driving, being 3 feet wide, yielding good work for tin; in the east end from the cross-cut it is of the same size and value as last reported, being 4 feet wide. In the cross-cut it is of the same size and value as last reported, being 4 feet wide. In the cross-cut it is of the same size and value as last reported, being 4 feet wide. In the cross-cut it is of the same size and value as last reported, being 4 feet wide. In the cross-cut it is of the wave, therefore, reliable it advisable, now the water is drained from this level, to open it at surface to see its proper bearing and underlying up to the bottom we find the flookan of the lode left, which contains a large portion of black and yellow copper ore, intermixed with mundic; a mor

PENDEEN CONSOLS.—W. Eddy, J. Warren, March 30: In the sump-shaft the round is good for sinking, and the men are making good progress. In the 118 north and outh we have not taken down any lode for the week, or in any of the stopes at this level. In the 106 south the lode is poor, yet a very kindly end. In the 106 north the lode is ooking very well, and has yielded one of the best takings down of ore we have seen in he mine. The other parts of the mine are just the same as when last reported.

POLGEAR (Telegram).—W. H. Pascoe, April 5: The lode in the shaft has n aproved, being 16 inches wide, composed of rich black copper ore and gossan, and

proving every foot sunk.

PROSPER UNITED.—W. H. Martin, April 4: The shallow level, on Murchison's lode, is extended east 9 fms.; the lode in the present end is 15 in. wide, composed of gossan, quartz, mundic, and yellow copper ore, still looking very promising. In the adit bringing up from the valley we have passed through the elvans 7% fathoms wide; this elvan-course is adjacent to the Moor lode, which we have now intersected, and is 3 feet wide, composed chiefly of gossan and mandle, producing good work for tin. The engine in course of erection on Louisa's shaft is rapidly approaching towards completion. At Hosking's not much has been done as yet in the fixing of the engine, but, as we anticipate the supply of the greater part of the work from Messrs. Harvey and Co. at once, no time will be lost in placing the machinery in position. We have commenced building for the reception of the whim-engines. Decimus's engine (biast) continues to work well, which very materially facilitates the progress of our operations.

PROVIDENCE.—W. Hellow, jun., P. Rogers, T. Anthony, April 3: Higg's Shaft:

PROVIDENCE.—W. Hollow, jun., P. Rogers, T. Anthony, April 3: Higg's Shaft:
No. 3 carbona is worth 50l. per fm. No. 4 carbona is worth 25l. per fm. We have cut
No. 3 carbona in the 85 cross-cut north, but there is not sufficient opened on it to report
its value. The stopes in the bottom of the 75 cast are worth 15l. per fm.—New South
Lode: No. 1 stope, in the bottom of the 65, is worth 20l. per fm. No. 2 stope is worth
100l. per fm. No. 3 stope is worth 40l. per fm. There is no change to notice in any
other part since last report.

REDMOOR.—T. Taylor, April 2: In the 40 west the ground is a little harder, and he lode making larger. The 80 west is as last reported, worth about 10%, per fm. No

RIBDEN.—R. Niness, April 4: There is nothing new since I last wrote you; every-ning is pushing on as fast as possible.

thing is pushing on as fast as possible.

ROSEWARNE CONSOLS.—J. Richards, April 2: The stope in the back of the 30, test of engine-shaft, is worth 15t, per fm. The 30 end is opening tribute ground, and improving. We have a small leader of ore north of the lode, and approaching it, and we may effect an improvement as soon as it fails in with it. The new shaft is down 15 ims. from surface, in a beautiful killas. We expect the lode in the shaft at the depth of 20 fms., and we have not the least doubt but that we shall have ore in it when cut. This shaft is about 10 fms. before the 30 end, and is being sunk for ventilation, discharge of stuff, &c., and the speedier laying open of the mine. No alteration in any other part of the mine status last senders.

us the mine since last report.

ROSEWARNE UNITED.—E. Carthew, April 4: We shall resume driving the 90 east and west in the course of three or four days. In the 58, west of Richard's shaft, the lode is 3 ft. wide, impregnated with ore. In the 46 and 34, east of Lane's shaft, there is no particular change since last week. In the 34, west of Richard's shaft, the lode is 1 foot wide, producing a little ore. In the 22 fm. level, east of Lane's shaft, the lode is 25 ft. wide, continues to look promising, and in the past week has been yielding some good ore.

some good ore.

ROUND HILL.—April 3: In the 62, driving north of engine-shaft, the lode is 4 feet wide, composed of carbonate of lime and lead ore, yielding of the latter I ton per fm.; this end is now within about 8 ft. of Bennett's sump, to which it will be communicated in the course of a week or ten days. In the stopes in back of the 62, south of said shaft, there is a large lode, yielding from 12 to 15 cwts. of lead ore per fm. In the 62, driving south of Bennett's sump, we are driving by the side of the lode, which we shall shoot down after we have holed. Bettom sump (32 fms. north of Bennett's), below the 52, is down the required depth all the way in a good lode; we shall push forward the 62 as

fast as possible. No. 1 stopes, in back of the 52, north of Davy's sump, are yielding from 10 to 15 cwts. of lead ore per fm. No. 2 stopes, in the same level, south of Garner's sump, are yielding I ton of lead ore per fm. No. 3 stopes, in the same level, both north and south of middle sump, are yielding I ton of lead ore per fm. The 40, north of the latter sump, and the back ever, are each worth from 30 cwts. to 2 tons of lead ore per fathom; this ground must be kept in reserve for the present. The 40, driving north-neast of engine-shaft, on the caunter lode, is yielding saving work for lead ore. We would remind the shareholders that the engine-shaft ought to be going, and the sconer arrangements are made for additional steam-power the better.

SIGFORD CONSOLS.—W. Hosking, April 3: The ground at the engine-shaft is much of the same character as it has been for the past fortinght. We have taken down some of the lode this week, and find it produces good stones of copper ore. We have intersected the north copper iode in the adit level, and the indications are exceedingly good; ground easy to explore, and the lode containing a quantity of quartz, mundic, and copper ore, such as to warrant a spirited prosecution.

SILVER VEIN.—F. Squire, April 4: My results from the ores continue in bulk with

ground easy to explore, and the lode containing a quantity of quarts, mundic, and copper ore, such as to warrant a spirited presecution.

SILVER VEIN.—F. Squire, April 4: My results from the ores continue in bulk with the same evident success. With the view of saving time and labour, I am operating on the ores as they come, without any selection, with equal satisfaction. You must be aware that operating for the first time on great masses of ores, a few days' trial was necessary to accretain the strength of fluxes with correctness. At the mine the silver-bearing lodes, on which we are now entirely working, are increasing in size and richness, I have great pleasure in hearing it is the intention of some members of the board to visit the works and mine, and freely judge for themselves. Some persons, early on the morning of yesterday, entered the mine, and stole ore. I have caused notices to be pockadorisring a reward for the discovery of the offenders.

SOFRIBDEG CONSOILS.—J. Richards, April 4: In the 110 east the lode is 2 ft. who, and yields stones of ore. In the 50 east, west of Crew's cross-cut, on south part, the lode is worth 1 to no fore per fm. In Head's rise in the back of the 50 east, on south part of lode, the lode is worth 2½ tons of good ore per fathom. In the 50 east, west of Mayne's cross-cut, on No. 2 south lode, the lode is 18 in. wide, and uppreductive. In the 40 east, on No. 2 south lode, the drivage is by the side of the lode; when last taken down it priedded ½ ton of ore per fm. Dunn's rise in back of the 40, on No. 2 south lode, the continuated with the 50 east, over the lode at point of communication is unproductive. In the 40 east, on No. 2 south lode, the lode is 80 east, on No. 2 south lode, the lode is 80 east, on No. 2 south lode, the lode is 80 east, on No. 2 south lode, the lode is 80 east, on No. 2 south lode, the lode is 80 east, on No. 2 south lode, the lode is 80 east, on No. 2 south lode, the lode is 80 east, on No. 2 south lode, the lode is 80 east, on No. 2 south lode, the lode

SOUTH BULLER AND WEST PENSTRUTHAL .- G. Reynolds, April 4: The ground about H Boller And D west PENSITE THAIL—G. Reynolds, April *: The ground in the north cross-cut is much softer than it has been, and we hope to make more speed in driving it in future. We have intersected a branch about *4 in. wide, composed of soft spar, but we do not consider this to be the lode which we sunk upon at surface, and which had a very promising appearance, but we hope soon to meet with it.

SOUTH CARADON WHEAL HOOPER.—W. C. Cock, March 30: The engine-shaft is set to sink below the 80, by nine men, the month out, at 291, per fm. The 62 to drive east and west, by eight men, four in each end, at 91, per fm.; the lode is small, spotted with copper ore. The 47 cross-cut to drive north, by six men, 1 fm., at 181.

SOUTH CARN BREA.—T. Glanville, April 3: In the different levels and winzes throughout the miles the lode is producing better average work than for some time past. We sold to Carvedras Smelting House on March 27, 5 tons 8 cwts. 2 qrs. 6 lbs. of black tin, at 64t. 10s. per ton=350t. 1s. 8d.

tin, at 641. 19s. per ton=3501. 1s. 8d.

SOUTH CONDURROW.—W. Richards, April 2: The engine-shaft is now down 14 fms. below the 15; lode 4 ft. wide, composed of spar, mundic, and rich stones of grey and yellow copper ore; the lode is very much improved in the last 3 or 4 ft. sinking, and looking very kindly for a further improvement. The lode in the 15, east from engine-shaft, is 3 feet wide, with quartz and spar, impregnated with yellow copper ore. In the deep adit, west from engine-shaft, the lode is 4 feet wide, composed of spar, mundic, and a little tin, but not sufficient to value. In the deep adit, west from case-cut, the lode is 3 ft. wide, composed of peach, spar, and rich stones of copper ore. I should have written you last Saturday, but from the indications of the improvement in the lode in the engine-shaft, and in the deep adit, west of cross-cut; I have deferred it until I could say, on the whole, we are looking very cheering.

SOUTH CRENVER.—E. Chegwin, April 2: In the 105 cast the lode is 2 ft. wide, producing good stones of copper ore, improved in the past week. Our tribute pitches in bottom of the 105 are very much improved.—South Mine: In the 51 cross-cut south the ground is favourable.

bottom of the 105 are very much improved.—South Mine: In the 51 cross-cut south the ground is favourable.

SOUTH DARREN.—J. Boundy, April 2: Saturday last being our pay and setting-day, the following bargains and tribute pitches were let:—The engine-shaft to sink below the 70 by its men, at 13f, per fm., for the month; the lode in the shaft is 3 feet wide, and of a very promising character. The 70 end to drive east by four men, at 8f, per fm., the lode is full 5 ft. wide, composed of clay-slate, copper, carbonate of lime, and lead ore, yielding of the latter from 12 to 14 cwts. per fm., with a promising appearance. No. 2 stope in back of the 70, west of shaft, by four men, at 68s, per fm. No. 3 stope east of shaft, in back of ditto, by four men, at 68s, per fm. It hess stopes continue to yield from 8 to 10 cwts, of ore per fm. The 60 end to drive east by four men, at 125s, per fm.; the lode is 3 ft. wide, composed of clay-slate, carbonate of lime, copper, and lead one, yielding of the latter about 8 cwts. per fm. To sink a winze below the 60, east of shaft, by four men, at 130s, per fm.; at present we are only carrying a small portion of the lode, in consequence of the water, To drive a cross-cut north from the 30 by two men, at 130s, per fm.; in classification here worthy of remark since last reported on, the water continues to issue from the end. To drive a cross-cut south from the 20 by two men, at 130s, per fm.; no lode has been taken down here during the past fortnight, in consequence of the stuff being in the end, as soon as this can be cleared out we shall then take down the lode; from present appearances the lode is looking very promising.—Tribute: Nine tribute pitches let to 23 men, at tributes varying from 101. 10s, to 12l, per ton, they paying all cost. The dressing of the skimpling for two months at 10l. 10s, per ton. The dressing of the slime for two months at 10l. 10s, per ton. The dressing of the slime for twe months at 10l. 10s, per ton. The dressing of the slime for two months at 10l. 10s, per

fast as possible. All the machinery is in good order.

SOUTH DOLCOATH AND CARNARTHEN CONSOLS.—William Roberts, April 2: In the addit east, on the cannter, the lode continues 1½ ft. wide, producing occasional stones of ore. Nothing new in the 50 cross-cut, driving north.

SOUTH GERNICK.—C. Carkeek, April 4: In driving the addit east, on St. Anbyn lode, we find the ground is becoming more favourable for driving; the lode in the same is 2 ft. wide, tinny throughout, and producing occasional rich stones of tin. This end is now driven undermeath the new shadt we commenced in the winter; the said shaft is now almost dry, and we intend to recommence sinking the same at once. This shaft is now down 5 fms.; there are about 15 fms. to sink to communicate with the adit, which will take about three months to accomplish; this, when done, will greatly beneft us for draining and ventilating the adit end, and otherways prosecuting the mine.

SOUTH LADY BERTHA.—R. Unsworth, April 4: In Williams's rise, in the back

SOUTH LADY BERTHA.—R. Unsworth, April 4: In Williams's rise, in the back of the 40 east, no lode has been taken down this week. The stopes in the back of the 40, east of Leaman's rise, are worth from 2 to 3 tons of copper ore per fm. The stopes west of Leaman's rise, are worth 1 to 2 tons of copper ore per fm. No alteration in other parts of the mine. We sampled on Friday last 75 tons of copper ore: 28 tons of fair quality, rather above the average produce; 47 tons of second quality; and have left about 8 tons towards the next sampling.

stons towards the next sampling.

SOUTH WHEAL BETSY.—W. Stephens, April 3: We have cut a strong branch in the south of Lay's shaft, 8 in. wide, composed chiefly of mundic, with spots of copper ore, a very kindly branch; ground therein spare for progress.

SOUTH WHEAL KITTY.—S. Mitchell, jun., April 1: Webb's shaft is about 8 fms. below the surface; the lode is about 3 ft. wide. I have taken several samples from the lode, and am much pleased to inform you the value of it:—No. 1, 3 cwis. 3 grs. 19 lbs.; No. 2, 2 cwis. 3 grs. 5 lbs.; No. 3, 2 cwis. 0 gr. 14 lbs. of black tin per ton of staff. Those samples have been broken in the bottom of the shaft since last Friday. The intersection of granite in the lode, which we have had for the last 8 ft., is wearing out fast. I hope in sinking 6 ft. deeper it will be totally worn out. I do not hesitate to say the lode is worth at present 16ft, per fm., and have not the least doubt of its greatly improving after we get below the adit level, and the ground gets settled. We have hard ground in the adit, and very congenial for tin, but the old men during the last working have taken away the greatest part of the lode above the adit, as far as we have seen it. The lode must have been very rich, or they never would have taken it away, because tin in those days was not worth more than 30t, per ton, and the lord of the land had one-sixth dish. In concluding, I can say that it is my decided opinion that we have a very rich mine springing up.

ST. DAY UNITED.—E. Ralph, March 30: There is nothing new in these minince last report, except in the 114, west of Trevivian's, which has been disordered branite, but is now well defined, the lode being 3 ft. wide, producing good work for tin.

granite, but is now well defined, the lode being 3 ft. wide, producing good work for tin.

ST. IVES WHEAL ALLEN.—H. Taylor, April 3: Glesler's Fistred-shaft: In the
50, east and west, there is no alteration to notice. The lode in the 40 west is about
6 in, wide, supproductive. The lode in the 30 east is about 2 ft. wide, worth 141. **S
fathom. The lode in the 40, east of Loulan's shaft, on Roderick's lode, is about 5
wide, producing a little tin, but not enough to value; we calculate soon to get this level
under the tin ground driven through in the 20. The lode in the 20, east of Loulan's,
on Roderick's lode, is improving; at present the lode is 5 in, wide, of a very promising
character, and we think it will soon open to its former size. There is no alteration in
the 50, west of sump-winze. We have about 4 fms. more to drive to hole the 50, east
of Glesier's the ground hard, for driving. The lode in Roderick's engine-shaft, sinking
below the 10, is about 6 fin. wide, worth about 51, per fm. The lode in the 20, east of
Highburrow shaft, on the north lode, is 12 inches wide, producing a little tin, but not
enough to value. In the deep adit cross-cut, north of Highburrow shaft, we have cut a
branch, and the men are now driving on it, but have not yet opened on it sufficiently io branch, and the men are new driving on it, but have not yet opened on it sufficiently to give any particulars of its character this week. The masons are getting on as fast as possible with the steam-stamps and whim-house, but the weather is making rather against surface operations.

possible with the steam-stamps and white-noise, the field's shaft, sinking below the against surface operations.

TOLCARNE.—April 3: Field's Lode: The lode in Field's shaft, sinking below the 20, is 2\% ft. wide, a very promising lode, and yields 1\% ton of good ore per fathom for length of shaft (12 feet). The lode in the 20 end, west of the shaft, is 1 ft. wide—unproductive. The lode in the rise in back of the 20, east of the shaft, is 1 ft. wide, composed of gossan and spar. In the rise in back of the 10, east of the shaft, is 1 ft. wide, look is 1 ft. wide, composed of gossan and spar. The lode in the winze sinking in the bottom of the adit, east of the shaft, is 15 in. wide, composed of spars, gossan, and good stones of ore—a very kindly lode.—King's Lode: The lode in the adit level, east of the cross-cut, is 1 ft. wide, of gossan and black copper ore—a small branch, or leader, 31. wide, of the latter on the north wall; this is a very pomising lode. The ground in the adit cross-cut south is rather hard. We have suspended the driving of the tin lode for the present, until we get the cross-cut in a little, as the tinstuff gets mixed with the ground from the cross-cut.

TRELOWETH.—T. Richards, April 4: Herewith please receive our estimate of ores.

ground from the cross-cur.

TRELOWETH.—T. Bichards, April 4: Herewith please receive our estimate of ores for sale on April 11 from this mine,—114 tons, 355;. 5s., exclusive of 14 tons slime ore. There is nothing new underground. We shall complete fixing the plunger-lift at the 124 pt to-morrow, after which we shall sink with right good earnest below the 134. Th 124 end east continues to look very well indeed.

124 end east continues to look very well indeed.

TREFULACK UNITED.—T. Hodge, April 2: We have dropped about 40 fms. below the adit level, and the water is now drained about 2½ fms. below the 36; this level is not communicated to the engine-shaft, consequently I cannot get down to examine it for a day or two, or until we launder down the water, and put in footway in a winze below the 26. At the old sump the 16 is cleared, and secured east nearly to the wood shaft; about 10 fms. east of the latter shaft the level is chocked with attle; here the lode appears to be disordered with cross-heads for several fathoms, and I rather think the main part of the lode is still standing to the north of this level. The 26 is cleared and secured about 10 fms. west of old sump. The wheel-shaft is cuit down and secured as far as the 26; the men are now engaged cutting plat, &c., preparing to sink below this level. The branch I referred to in my former report passed through the shaft about 5 fms. above the back of this level; it is about 4 in. wide, rich for tin. After the plat is completed, we

shall commence to clear west at once, when we shall soon be in a position to set more tribute pitches. It will take a month or two to clear the different levels, and bring the mine into a proper state of working, after which I have every reason to expect some good and regular returns will be made.

and regular returns will be made.

TRENGROM.—R. Hollow, F. Bennetts, April 3: At Giesler's engine-shaft, sinking below the 90, the lode is unproductive. In the 90, cast of the engine-shaft, the lode is worth 21, per fm. In the winze sinking below the 80, east of the engine-shaft, the lode is worth 11, low. per fm. In the 80, east of the engine-shaft, the lode is worth 41, per fathom. In the 80, west of the engine-shaft, the lode is unproductive. In the 60 cross-cut clearing south, east of the engine-shaft, no change. In the 40, east of the engine-shaft, the lode is worth 41, per fm. In the 30, west of Michell's fat-rod shaft, the lode is worth 31, per fm.

TREYOOLE.—H. Stephens. J. Lean, April 4, All the register of the engister in this in the 10 country of the country of the

shaft, the lode is worth 4f. per fm. In the 30, east of the engine-shaft, the lode is worth 3f. per fm.

TREVOOLE.—H. Stephens, J. Lean, April 4: All the points of operation in this mine are without change te notice since our last report. We are opening out a large extent of ore ground, which will enable us to increase our future samplings very much. TREWEATHA.—J. Scoble, April 2: The engine-shaft is down 6 fms. 2 ft. below the 15; ground somewhat harder. In the 15 south we have met with another cross-course which is very soft, and of a very congenial character for the production of lead, but in consequence of its being so very was and troublesoms we have scarcely got far enough through it to report fully of its value. I can, therefore, only say that in the stuff washing back from beyond where we can get to see there is some beautiful lead, good work.

TRUMPET UNITED.—G. R. Odgers, March 30: We are making good progress with the slaking of the engine-shaft; our speed is about 6 ft. per week; the lode averaging 10 in. wide, and worth about 91, per fm. The lode now laying open in the western ed.—Joes to be at the 15, after which we shall open west, and commence stamping. All the shell to-day. The adit end is extended west of the whim-shaft 18 fathoms; the lode for the last 2½ fms. is disordered with the granite mixed in it; the lode aitogether is 3 fent wide. I think as we get west the lode will make more regular; it is a very pretty looking lode all the distance from the shaft. I think this lode will make thin depth. The engine-lode in the adit level is a beautiful looking lode for a great many fathoms in length; I think the sooner the engine is put to work the better. My opinion is that everything looks favourable about the ground for the lode making into drain the adit, I think; there are 12 sets of timber to alter, and by doing so I think it will drain the adit very well. The lode that was ut in driving in the side tye we have 2½ feet of level more to bring in to drain the adit, I think; there are 12 sets of t

be taken when the mine is sunk to the 10. I think the lode shows every indication for making tin. I am very much pleased with the appearance of the mine all through the adit level.

VALE OF TOWY.—A. Waters, T. Harvey, April 2: Clay's engine-shaft, sinking below the 90, is progressing favourably. The east lode is now on the footwall of the shaft, and from its vertical position is, we think, in junction with the main iode, at present depth. We calculate on reasching the 100 by the end of next month. In the 90, driving south of said shaft, the hard ground continues, but the lode, which is yielding blende and occasional stones of lead ore, is opening, and has a more promising appearance than of late. In the 80, driving north of this shaft, the lode is 5 ft. wide, composed of barytes, carbonate of lime, and stones of lead ore, but not to vaiue. In the 80, driving south of Field's shaft, the lode is 5 ft. wide, yielding sulphate of barytes, considerable quantities of blende, and stones of lead ore. We expect to cut a bunch of lead ore in this end shortly. In the winze sinking below the 70, south of the above end, the lode is 2½ ft. wide, yielding rich lead ore throughout, and improving in depth. In the 80, driving north of Bonville's shaft, the lode is 3 ft. wide, yielding saving work for lead ore. The stopes in the back of the said level, south of Woolcock's winze, are yielding about 15 cwts. of lead ore per fm. The winze sinking below the 70, south of Bonville's shaft, on the little cross-course, is in favourable ground. The tribut department is the sand is the protect.—P.S. We had leave granted to clear the adit level in Major Mansell Phillips's iand, near our south boundary; but subsequently a refusal has come to hand, owing to a necessity the parties were under to write Messrs. Watson and Cuell.

WATERMOUTH GREAT SILVER-LEAD MINING COMPANY (Limited):—Mr. J. H. Hitchins, under date of April 2, writes: Newbury: We are now sinking Hitchins's engine-shaft below the 20 with all possible force and dispatch, being aire

begin to sink the shaft for another lift, for which we are now ready.

WENTNOR.—T. Price (Brynford Hall), April 4: The forebreast of the 64 yard level
west is somewhat disordered. On Wednesday we found another vein coming in from
the eastern side of the isvel, which, from its slight angle, appears to be nearly a parallel
lode. We may expect that this will greatly improve the main lode when a junction of
the two takes place. In reply to your letter, I also am disappointed that we have not
had ore in good quantity for some time past in this level. I have never seen more promising ground in my life; and if we do not soon have good ore it will be one of the
strangest things I ever met with. The vein is strong, and promises well.

strangest things I ever met with. The vein is strong, and promises well.

WEST BASSET.—W. Roberts, April 2: In the 114 west the lode is 3 ft. wide, letting out water freely, and occasionally producing stones of good ore. The rise in the back of the 104 is nearly holed to the 94, which will open good tribute ground. In the 94 west the lode is 3 ft. wide, producing I ton of oreper far. The 84 west is nearly communicated with the 84 east from Hosking's winze: at present both ends are unproductive, each being in ground disordered by the cross-course. In the 65 west the lode is 2 ft. wide—tribute ground, The 52 west is looking better than it has been for some time past; the lode in the end is now 3 ft. wide, with stones of good ore.

WEST CONTURBOW.—G. Requests. G. Levill, April 4. The lode in the croise.

being in ground disordered by the cross-course. In the 65 west the lode is 2 ft. widetributs ground, The 52 west is looking better than it has been for some time past; the
lode in the end is now 3 ft. wide, with stones of good ore.

WEST CONDURROW.—G. Bennetts, G. Jewill, April 4: The lode in the engineshaft is 3 feet wide, and producing saving work for tin, and impregnated with copper
ore; the shaft is now down to the 12; we have commenced dividing down the shaft,
and putting in the ladder and skip road, this we hope to complete this week. In the
24, west of Purser's shaft, the lode is from 2 to 3 feet wide, and impregnated with copper ore. In the same level east the lode is 4 feet wide, containing mundle and spots
of copper ore. We are sinking a winze under the 12, east of Purser's shaft, where the
ide is 3 feet wide, worth 87, per fm. for tin, and of a very promising appearance.—
P.S. The 12, east of Purser's shaft, is worth 184, per fm.; we have some fine stones
of ore broken since the afternoon.—A. E. PAUL..

WEST GREAT WORK.—J. Prince, S. J. Reed, March 25: We beg to confirm our
report of the 19th uit., and published in the Journal on March 23. We have driven
east in the level on Acre 'lode through the cross-course. The western end has also been
driven through the cross-course, when we found the lode was divided, and hove to the
right; a cross-cut was consequently driven in that direction 2 fms., when the caunterpart of the lode was discovered, and we have since driven about 5 ft. west on its course; is
and although it is not out of the influence of the cross-course, yet the lode, which is
about 1 foot wide is very promising, and daily improving, and it is at present worth 7t.
per fm., price for driving 4t, per fm. The lode in the eastern end is about 15 inches
wide, tinny throughout. On the footwall is a small vein of flookan (chloritic clay)
which contains one-third part tin. This is a good indication, and whilat it continues to
traverse the wall there is no fear of the lode continuing good. The

MEST SNAILBEACH.—J. Richards, April 4: Our operations are at present confined to the sinking of the engine-shaft below the 64, and is now down 2 fms. 4 feet below the level; for the above distance we have had to sink through the north lode, which has been large and very troublesome for going through, and has been the means of impeding our progress. It is the intention to sink the present shaft to the 76, which will occupy about four or five months from this time, unless the ground should become more peding our progress. It is the intention to sink the present shaft to the 78, which will cocupy about four or dive months from this time, unless the ground should become more favourable. At the 67 it is expected that the junction of the north and south lodes will take place, and, judging from the nature and character of these lodes at our present bottom, a good course of ore is reasonably expected; there shall be no time lost on my part in order to arrive at the 67. The north lode, west of the engine-shaft, at the 64, is extended several fathoms from the shaft; and for all the driving the lode has had a very good appearance, producing ore for all the way, particularly towards the bottom of the level; at the present forebreast the lode is not so large, and the ground harder for progress. I am of opinion that we are approaching very mear the junction of the south lode. The driving of the south lode east is extended from the cross-cut about 12 fms. By examining the 40 fathom level I find we have still a few fathoms more to drive previous to arriving at the ore-bearing ground gone down in the 40 fathom level; as soon as this is met with we shall have a long and high plece of ground to stope away in this level. The six men recently put to drive to cut the north lode, east of the engine-shaft, are making good progress; as soon as this is intersected we shall drive east on its course; by so doing we shall avail ourselves of meeting with all the pipes or shoots of ore dipping in that direction. I firmly believe that with a little more time and patience the storms will be over, and brighter prospects in view.

WEST TOLCARNE.—R. Pryor, jun., J. Brown, F. Pryor, April 3: The sump-shaft will be down 10 fms. by our next setting, and as the lode is again presenting better appearances, I have decided in sinking to the 12 before we drive; on reaching this point we have a right, from present appearances, to expect such change as will enable us to open up some good orey ground, and no time will be lost in carrying it out. We are

cross-cutting south to cut a lode.

WEST TREVELIVAN.—G. R. Odgers, J. D. Osborn, March 28: Cater's engine-shaft to sink below the 48, by nine men, at 14f, per fm.; the shaft is 9 fms. 4 ft. below the level, and we calculate it will take another week to sink it to the 58, after which it will be divided and cased, when we shall extend east and west as rapidly as possible. The 48 to drive west, by four men, at 4f. per fm.; iode in the end-being all of 2 ft. wide, composed of quartz and ore, worth 10f. per fm.; there we have driven better than 12 fms. through a good orey lode, and we think, judging from the appearances of the end to-day, that it is shooting promising for a still greater (improvement. A stope above the 48 week, te eight men, at 21. 15s. per fm.; iode worth from 10f. to 12f. per fm. At the 38 we have set a wings to sink immediately upon the 48 week, to ak men, at 21. 15s. per fm.; this will ventilate the 48, and at the same time we expect to lay open a good piece of orey

round. A cross-cut to drive north at the 28, by four men, at 51. per fm.; the ground seling of an easy killas.—Park Shaft: We have set the cases-cut to drive south, by our men, at 41. per fm.; here we calculate we have nearly 20 fms. to drive before we ut the lode seen in the quarry. We have set two pitches on Hawk's lode, at tributes varying from 12s. 4d. to 15s. in 11.

varying from 13s. 4d. to 15s. in 11.

WEST WENDRON CONSOLS.—R. Kendall, April 1: The engine-shaft has been sunk in the past week about 6 ft; 4 ft. south of this shaft we find the lode is all taken away by the old men; we expect in about 2 fms. more sinking to intersect the lode, or old men's workings. There is no change in the water-wheel shaft or 10 fm. level cast.

WEST WHEAL MARGARET.—Capts. Uren and White, April 2: The ground in Hallett's shaft, below the 20, continues favourable for sinking, and the lode much the same as last week, worth 71, per fm. The lode in the 20, east and west of Hallett's shaft, is producing tinstuff of low quality, but at present not much to value. No change in any other part of the mine.

WEST WHEAL TOLGING.—April 2. No continued to the continued

in any other part of the mine.

WEST WHEAL TOLGUS,—April 3: In our last report we stated that we had dropped the lift 17 fms. below the 50; the lift forced its way through old timber and rubbish for 9 feet. On draining the water we found the shaft to be choked full of timber and rubbish for 9 f. above the bottom of the lift. We have since fixed the skip-road from the 50 fm. level 11 fms. below, and are clearing up the shaft with the skip instead of tackle; we hope shortly to get to the bottom level. Taylor's shaftmen are progressing favourably in sinking; the water is decreasing at the shaft. We have very good ground in the rise in back of the 40, and the men will rise 6 fms. this month. The lodes at Taylor's shaft and the rise are of much the same character and appearance as when last reported on—chiefly composed of flookan. In the 40, west of Wheal Raven engine-shaft, on the north lode, we have opened the level to a proper size, and have set it to three men and three boys, at 71. per fm.; the lode is from 20 in. to 2 ft. wide, consisting of spar, mundic, lack, and good stomes of ore—a promising looking lode. In the 50, west of Wheal Raven shaft, on the north lode, we have a pare of men opening the level; the lode here is 3½ feet wide, composed of spar, jack, mundic, and good stomes of ore—a fine kindly looking lode; we recommend driving this level as soon as it is opened to a proper size, which will be in a few days. Nothing new on tribute.

WHEAL AGAR.—Wm. Roberts, April 2: In the 80, driving west, the lode is 4 ft.

which will be in a few days. Nothing new on tribute.

WHEAL AGAR.—Wm. Roberts, April 2: In the 80, driving west, the lode is 4 ft. wide, producing 1 ton of ore per fm. The winze sinking under the 70 produces stones of ore; the lode is 2 ft. wide. In the 70 cast the lode is 3 ft. wide, with stones of good ore. In the 60 cross-cut, north from Windstow engine-shaft, the ground is favourable for driving, and in the present end there are several small branches, each containing good yellow ore; the appearance of the end leads us to believe that a lode is not far distant.

— Wm. Roberts, April 3: Since I wrote the report yesterday the men sinking the winze under the 70 have taken down the lode, from which they have sent up four skips of ore; it is 1½ foot wide, and from its present appearance will produce 1½ or 2 tons of ore per fathom.

of ore; it is 1½ foot wide, and from its present appearance will produce 1½ or 2 tons of ore per fathom.

WHEAL ANNE.—H. B. Grose, April 4: Having opened sufficiently on the backs of the lodes in this sett to prove their value, size, and bearing, which we find to be satisfactory, we have commenced to drive the shallow adit, which will come into the great lode 10 fms. deep; set to four men, at 5z. per fathom; the ground being a decomposed granite, such as the productive tin lodes are found/in in this district; and from the appearance of the lodes opened on to the depth of 10 or 12 ft., I have every reason to believe that we have a valuable property before us, if pumping machinery were erected; but when we take into consideration the advantage of working this property by means of an adit level 50 fms. deep, which is already down to the lode within a short distance, and the facility for all stamping purposes by a never-failing stream of water, it cannot fail to be very productive, and return large profits to the shareholders as soon as the stamping power is crected, which will be got on with as fast as possible, and hope to have in course of working in three months from this time, when we shall be in a position to pay the cost of the mine, and leave good profits to the company monthly. I have hired some small stamps near at hand, which will be got to work next week on the tinstuff broken from the backs of the lode, which I think will leave a profit on its working.

small stamps near at hand, which will be got to work next week on the distant protein from the backs of the lode, which I think will leave a profit on its working.

WHEAL ARTHUE.—T. Carpenter, April 2: Old Lode: In the adit level west we have cut through the cross-course, and commenced driving north in order to cut the lode the other side of it, which I expect is not far ahead; this end is driving by four men, at \$1. 10s, per fm., 1 fm. stent; the lode is \$1. 10s, per fm., 2 fm. stent; the lode is \$1. fm. wide, composed of spar, nundic, peach, and some very good stones of copper ore-great South Lode: We have resumed a rise in the back of the adit, west on this lode, be lode is \$1. fm. wide, yielding a little copper ore, but not enough to value; this rise is set to four men, at \$2. per fm.—Watson's Lode: We have resumed driving the adit level, west on this lode, by six men, at 77. 10s, per fm.; the lode is \$1s\$, wide, composed of spar, capel, and peach, intermixed with this. The lode in back of the adit west is 2 feet wide, yielding moderate stamps work for tin, and stoping by four men, at 22, per fm. We have set a pitch in back of the adit west, on north lode to two men, at 13s. 4d. in 11. All our operations are in and above the adit level.

set a pitch in back of the adit west, on north lode to two men, at 13s. 4d. in 13. All our operations are in and above the adit level.

WHEAL CREBOR.—J. Gifford, April 2: No alteration in any part of the mine to report on since my last. The different operations are being pushed on with all possible speed. The machinery and pumpwork are in efficient and effective condition.

WHEAL CUPID.—R. Pryor, March 30: The lode in the 65, east of the engine-shaft' is 2½ ft. wide, producing stones of black and grey copper ore, and from its present appearance a further improvement may be shortly expected. Not much has been done during the past week. The men have been engaged in putting up a rise in the back of this level for ventilation, where the lode is 3 ft. wide, yielding some good copper ore. The lode in the 41 is 2½ ft. wide, and worth ½ ton ef good ore per fm., with a good appearance. No change to notice in any other part of the mine since my last report.

WHEAL DAMSEL—R. Pryor, H. Harvey, March 28: We beg to inform you that the water is in fork about 6 ft. under the 50 at John's shaft; there is a cross-cut in this level which is driven south 30 fms., and intersected the main lode; and on this lode we can go about 30 fms. west and 20 fms. east from this cross-cut, at which points there are some old stulls broken down, and filled the level.—Fox's Shaft; We find this shaft full from the 40 to the 50, where we have six men engaged clearing the same, and hope to have it completed to the 50 in about three weeks. We may here remark that the footway is completed through the winzes near this shaft to the 50, and succeeded in going east about 30 fms., where we find a cross-cut driven north on Hodge's flookan 40 fms., where we find a cross-cut driven north on Hodge's flookan 40 fms., where we find a cross-cut driven north on Hodge's flookan 40 fms., where we find a cross-cut driven north on the doe's flookan 40 fms., where we find a cross-cut driven north on Hodge's flookan 40 fms., where there is a dam built with brick and ceme

Shaft: We are pushing on the different levels at this shaft with all possible dispatch.

WHEAL EDWARD.—M. H. East, March 30: South Lode: In the 92 west the ground is moderate for progress, and the same remark applies to the 81 west. In the 71 west the lode is large, and its worth 5 tons of ore per fm. In the 64 west there is no material alteration; the lode is still disordered, but the general character of the ground is congenial for mineral. In the rise in back of the 61, on the course of the canter, the portion of the main lode which is being carried is worth 2 tons of ore per fm. In the 64 east we are driving by the side of the lode, and the ground is good for progress. In the 50 west there is no change of importance. In No. 2 rise, in back of the 50 east (tribute pitch), the lode is worth 5 tons of ore per fm., but the ore is not so rich at present as formerly, probably, on the whole, it is worth 64, per ton. In the 40 east the lode is 6 feet wide, yielding capel, quartz, mundic, yellow, and some rich oxide of copper, worth 401, per fm.—North Lode: In the 52 west the ground is moderately easy for driving, and looks favourable for mineral. There is no alteration at any other points which are not mentioned. We have sampled 198 tons of ore, computed, and I calculate we shall be prepared to put in a similar quantity when the regular sampling-day comes on again, at the end of May.

WHEAL GRENVILLE.—G. R. Odgers, March 30: The enrine-shaft to aink halow.

pared to put in a similar quantity when the regular sampling-day comes on again, at the end of May.

WHEAL GRENVILLE,—G. R. Odgers, March 30: The engine-shaft to sink below the 100, by nine men, at 2%, per fm.; to loe 18 in. wide, and in the western end of the shaft there is a good branch of ore; if it continues it will yield 1½ ton to the fathom. The 100 cast, to four men, at 44. per fm.; lode 2 ft. wide; there being a good branch of ore nearly 1 ft. wide; it being very wet; had it been dry it would yield from 1 to 1½ ton to the fathom. The 100 west, to four men, at 64. per fm.; lode at present split, but which I think will ere long produce a favourable change. The 90 cast, to four men, at 34. 10s. per fm.; lode for 2 ½ ft. wide, composed of black and grey ore, embedded in quartz and gossan, worth from 1½ to 2 loss to the fathom. The 90 west, to four men, at 54. 10s. per fm.; lode 1 ft. wide, composed of yellow ore and mundic, with a great deal of water flowing from it, yielding 1 ton to the fathom, and opening good tribute ground. The 90 west, on the north part, to two men, at 64. 10s. per fm.; lode 10 in. wide, and worth 1 ton to the fathom, also laying open good tribute ground. The 90 west, on the north part, to two men, at 64. 10s. per fm.; lode worth 10d. per fm. The 80 east, to four men, at 64. 10s. per fathom; this is about 3 or 4 fms. behind the improved lode was now have in the 90 east, where we are expecting an improvement. The 80 west, to two men, at 64. per fm.; the lode is at present small, port done is all the ground will be taken away on tribute, after it is ventilated by the winze now sink-low the 66, by six men, at 104. 10s. per fm.—lode small. The 66 cast, to two men, at 104. per fm.; tode in the manner small, but which is bunchy, and I think a great deal of the ground will be taken away on tribute, after it is ventilated by the winze now sink-ting. The pitches throughout the nine are producing their usunal quantities of ore.

WHEAL GRYLLS.—E. Rogers, J. Pope, April 4: Fisher's Lode: Amie's e

ing. The pitches throughout the mine are producing their usual quantities of orea.

WHEAL GRYLLS.—E. Rogers, J. Pope, April 4: Fisher's Lode: Annel's engineshaft is down 6 fms. 1 ft. 6 in. below the 10; the lode is 2 ft. wide, producing good stones
of tin. At the 10, east of this shaft, the lode is worth 4?, per fm.; at this level west
the lode is worth 2?, per fm. At the fisher of shaft, in the end driving west, the lode is
18 in. wide, opening tribute ground; in the end east the lode is small and poor. In the
winze sinking in the bottom of the adit level, east of the shaft, the lode is also small
and unproductive.—Georgia Lode: In the stope in the bottom of the 33 the lode is worth
25t, per fm.; in the stopes in the back of this level, No. 1 is worth 18t, per fm.; No. 2,
16t, per fm.; and No. 3, 5t, per fm.

16f. per fm.; and No. 3, 5f. per fm.

WHEAL HARRIETI.—S. Williams, March 30: At the engine-shaft we have the cross-course, which is letting out much water, and has drained the 100 to the west of the cross-course at this level. I have to-day set six men to sink a winze on the main lode, on the cross-course, which is worth for copper ore 10f. per fathom. The lode in the 100 cast end is worth on the north and south parts 20f. per fm. The stopes above the 100 are worth for tin 1 ton per fm., and copper ore 10f. per fm. The lode in the 90 cast end is divided with a horse of grantite, both parts containing copper cre, but not sufficient to value. The stopes above the 90 are worth for copper ore 10f. per fathom. The lode in the 30 is 1 foot wide, producing stones of ore. The lode in the 10 cast end is producing apots of copper ore. The lode in the stope above the deep adit end is producing apots of copper ore. The lode in the stope above the deep adit is vorth 7f. per fm.

WHEAL HEARLE.—N. Tredinnick, W. Wasley, March 30: The engine-shaft is now

stope above the deep adit is worth 71. per fm.

WHEAL HEARLE.—N. Tredinnick, W. Wasley, March 30: The engine-shaft is now sunk to the 100, the lode producing tin. Just commenced to drive in the 100 west by three men, at 51. per fathour, the lode is worth 41. per fathom. The 90 west by three men, at 50. per fathoun, and 6s. 80. in 14. for tin; lode worth 151. per fm. This end has just now touched on the run of our best western tin ground, which shows it lengthening castwards, as well as westwards in the 80, which is very encouraging. The 80 west, by three men, at 50s. per fm., is worth 101, per fathoun. The tin ground has lengthened greatly westward in this level. The 60 east 46, per fm.; lode poor for tin. The 50 cross-cut south at 111. per fm.; ground very hard for driving. We have 12 tribute pitches working by 34 men, at tribute varying from 6s. 8d. to 16s. in 11., at 601. per ton. We have put a new footway in the winze from the 12 to the 90. The mine is looking very well on the whole.

WHEAL HENRY.—E. Ralph, J. Cock. March 30. The water is

mine is looking very well on the whole.

WHEAL HENRY.—E. Ralph, J. Cock, March 30: The water is drained to the 30 but we have not as yet been in the level. We have been in the 20 fm. level, 30 fathoms west of the shaft, where nearly all the ground above the level is taken away by former workers. According to reports, we shall have some productive ground about the 30 and 40 fm. levels. The coming water is very little.

40 fm. levels. The coming water is very little.

WHEAL RITTY.—R. Pryor, J. Nicholas, Wm. Higgins, March 30: Engine-Shaft: We are happy to speak of an improvement in the 90, east of this shaft, being now worth 20/, per fathom. In the same level west we have cut the cross-course, which has heaved the lode 30 fathoms north, consequently the end has been suspended. In the last 2 fms. driving we had a good leader of tin from the bottom of the level 3 ft. upwards; this we consider speaks strongly for the ground below. The men from this and have been put

to rise in the back of this level in a lode 2½ ft. wide, worth 71, per fathom.—Holgate's Shaft: The lode in the bottom of this shaft continues to improve, now producing stamping work for tin, with a most promising appearance. No lode has been taken down in the 55, west of this shaft, since last report. The rise above this level is still opening up antisfactorily, being worth 91, per fathom. Our progress in this level has of late been somewhat retarded by the deadness of the air; we have now put in an air-maching, worked by a small water-wheel, for its better ventilation, which will enable the men to work much more vigorously than before. The lode in the back of the 4 west is improving, being now worth 61, per fathom. The other tutwork operations at both shafts are much the same as last reported. The tribute department, on the whole, is somewhat improved.

somewhat improved.

WHEAL MARY EMMA.—Capt. Doble, March 30: Since the last general meeting the work has been chiefly confined to stoping below the adit west of the river; the lode is large, from 2½ to 3 feet wide, carrying good work for the ither has been no lode taken down during the past fornight, the men having been desuing the same. As you have Capt. Daw's report, I shall not enter much into the prospects of the mine. As I have repentedly stated they are such as to warrant a more spirited working, I should strongly recommend that a shaft to a 12 fm. level below the adit, west of the river in the valley, be sunk, and in that level two ends be driven one cast and the other west, that the water may be drawn out at the engine-shaft west of the river, and that a cross-cut be put out south to intersect the south, or Emma icde, and to communicate with both parts of the mine; by so doing I believe you will be laying open a profitable mine, and it would be working it in a miner-like manner.

WHEAL NEESON.—J. Angove, April 2: We have out the lode in the 44 cross-cut.

WHEAL NELSON.—J. Angove, April 2: We have cut the lode in the 44 cross-cut, south of the engine-shaft; we have driven into it about I foot, and find it to contain copper, with a large stream of water issuing from it, and when cut through I think you will find it to be a large lode.

per, with a large stream of water issuing from it, and when cut through I think you will find it to be a large loid.

WHEAL NORRIS.—J. Nancs, J. Andrews, March 30: The engine-shaft is now sunk 10 fms. below the adit level, and we think it advisable to sink it 5 fms. deeper before cross-catting to intersect the lodes, as the ground is so very favourable for sinking, &c. The fiat-rod shaft it down 5 fms. 4 ft. below the adit; the No. 3 lode is now in the bottom of the said shaft; it is composed of peach and quartz, with spots of yellow copper ore, and containing a little tin. At the east shaft we have 10 feet more to sink to get it as deep as the adit level, and there are 40 fms. more to be driven on the No. 3 lode, in the adit level, to reach a point at right angles with the said shaft, and then the distance to drive north from the No. 3 lode, as showed by our dialining, will be 16 fms. 1 ft. 5 in. to reach the lode in the east shaft; this, of course, depends on the lode continuing its course as at present. We have not taken down the lode in the east shaft this week, but cut into it to-day for a sample, and find it of good quality tinstuff. The No. 3 lode, in the adit end driving east, is much the same in quality as last reported. The lode in the stopen back of this level is 2 feet wide, and worth about 87, per fm. The ground in the north cross-cut is still favourable for driving; it is now extended 16 fms. north from the flat-rod shaft. The railroad is completed from the stamps to the flat-rod shaft-floors, and we shall set the the stamps to work on Monday next. You are aware that the stamps have been ready some time, but we could not supply them with stuff before we had made the railroad. In two or three days more we shall complete it to the east shaft, and to go on with the stamping without interruption.

WHEAL PROSPIDNICK.—R. Kendall, April 1: Wilson's shaft is gunk 10 fms.

WHEAL PROSPIDNICK.—R. Kendall, April 1: Wilson's shaft is gunk 10 fms. low add, and the lode has a very favourable appearance; we shall now commence dring east and west on the lode. The lode in the 12, east and west of Watson's shaft producing good stamping work.

producing good stamping work.

WHEAL SIDNEY,—W. Edwards, April 4: There is no change to notice in the 60 cross-out at the new engine-shaft since last report. At the old engine-shaft we have resumed the driving of the 23 cast, by six men; the lode at present is about 8 in. wide, composed of friable spar, mundic, and carrying a little tin; and, judging from the character of the lode, and the large quantity of tin that has been raised by tributers in the old workings above this level, and a few fathoms beyond the present end, we may fairly calculate on good results. The forking of water at the old shaft is at present progressing but slowly, by reason of the very heavy rains we have had of late.

but slowly, by reason of the very neary rains we have had a late.

WHEAL SHEPHERDS.—H. Bennetts, April 3: The lode in the adit end, east of Rye's shaft, is much the same as last reported. We broke stones of lead in the adit end last week I think the best I ever saw since I have been agent at this mine. This tode is carrying a good head wail, and a more regular underlie then I have ever seen before; it is 18 in. wide, composed of mundle, jack, and fine lead. I have every reason to believe in driving east we shall cut another lode shortly.

WHEAL SICILY.—John Symons, April 2: We have been busily engaged fixing the arge lift, which is almost ready for working. I hope to put it to work this evening

eing well.

J. Symons, April 3: I am happy to say we put the 20-inch lift to work to-day, am giad to tell you it is working very well indeed, and the water is almost in fork, e shall resume driving the cross-cut as quickly as possible. We have got 2 ft. more op this lift to get it to the bottom, as it is down on a pile of stuff.

so we shall resume driving the cross-cut as quickly as possible. We have got 2 ft. more to drop this lift to get it to the bottom, as it is down on a pile of stuff.

WHEAL TRELAWNY.—F. Pryor, R. Pryor, J. Brown, W. Jenkin, W. Bryant, T. Grenfell, March 28: North Mine: We have set the 172 to drive east by six men, 7 fms. or cut the lode, at 91. 103 per fm., which will take about two and a half months to accomplish. In the 162 north the lode is 2 ft. wide, worth 4l. per fathom. The stopes in the back of the above level are two in number, each worth about 5l. per fm. In the 162 south the lode is 1½ ft. wide, worth 5l. per fm. The stopes in back of the above level are four in number, worth on an average about 6l. 10s, per fm. In the 152 south the lode is 3 ft. wide, worth full 20l. per fm.; price for driving 4l, per fm. In the stope in back of the above level the lode is worth 8l. per fm; this stope is back from the end about 10 fms. In the 152, south from Chippendale's shaft, the lode is 4 ft. wide, worth 7l. 10s. per fm., and looking very promising; price for driving 3l. 10s. per fm. The stopes in back of the above level are three in number, worth on an average about 6l. 10s. per fm. In the 140, north from Chippindale's shaft, the lode is poor at present. In the 132, north from Chippendale's shaft, the lode is 2 feet wide, looking very promising. In the 141 north the lode is 14 ft. wide, worth 4l. per fm.—South Mine: In the 152 north the lode is 2 feet wide, looking very promising. In the 142 north the lode is 150 to wide, worth 6l. per fm., and looking better than when last reported. In the 130 north the lode is a tresent disordered by the influence of a slide. Our setting went off very weil.

WHEAL TREMAYNE.—B. Williams, John Williams, April 1: In the 123, east of

the influence of a slide. Our actiting went off very weil.

WHEAL TREMAYNE.—R. Williams, John Williams, April 1: In the 123, east of Allen's shaft, on Allen's branch, the branch is improving, and yielding good tinstuff; we have cleared this level, and commenced drawing tinstuff through the boundary engineshaft. In the 113, east of the same shaft, on Allen's branch, the branch is looking well, worth 251, per fathom. The stopes in bottom of the same level are worth on an average 161, per fathom. The stope in back of the same level are worth on an average 161, per fathom. In the 103 cross-cut, north-east of the same level are worth on a naverage 162, per fathom. In the 103 cross-cut, north-east of the same shaft, towards allen's branch, we have intersected a part of the engine lode about 6 in. wide, yielding good stones of tin, with a kindly appearance. The new engine-shaft is cut down within 5 fms. of the 83; the ground is rather harder, and the stuff more difficult to remove; we expect to complete the same to its required depth this month. We are still repairing Allen's shaft, about the 113, where the ground has slipped and timber failed, in connection with the flookan, which is very troublesome to repair, and we hope to get the same in a working state shortly.

flookan, which is very troublesome to repair, and we hope to get the same in a working state shortly.

WHEAL UNITY CONSOLS.—W. H. Reynoids, March 30: We have to-day set the 75 west, to three men and three boys, at 70s. per fm.; the lode here is yielding good stones of ore. In the 75 east the lode is yielding good saving work, and is set at 34, per fathom. The stopes east of the shaft, in the back of this level, are set to six men, at 40s. per fm., and are worth 10t, per fm. The 65 east, on north part of the icde, is set to one man and one boy, at 20s. per fm. The 65 east, on north part of the icde, is set to one man and one boy, at 20s. per fm. The stopes west of the shaft, at this level, are worth from 8t. to 10t, per fm., and set to three men and three boys, at 57s. 6d. per fm.; the lode is 2½ ft. wide, and very promising.

YARNER.—J. Hampton, March 30: The 30 east on the north lode is worth quite 5 tons per fm. of good quality ore; we have driven this end full 15 fms. since the ore was first cut; the lode is all the eize of the end, and wet, and the ore never more likely to hold on. As soon as the winze is holed, by sinking about 2 fms. more, we shall be in a position to pay the greater part, if not the whole, of the cost; and should we lay open the lode at the 40 only as good as we have it here, I am confident of having a dividend-paying mine. The lode will be taken down in the 20 west next week, but the last 6 or 6 fms. driving average from 2 to 3 tons per fm. Other places are looking much the same, turning out fair quantities of ore. We are very likely to sample at the end of April about 400t. worth of copper ore.

NORTH TRESKERBY.—A fortnight ago, in this place, we gave some particulars of an interesting character respecting this mine, and as it is one of more than ordinary promise we applied to our correspondent for further information, which has just been received. He says that North Treskerby was set to work in the month of February, 1859, little more than two years ago, with machinery including a new 50-in. steam-engine, steam-whim, &c., costing 4500f. During that period the calls have amounted to 8000f., and the money realised from ore sales to 8830f., which has been spent on the mine by the present adventurers. To show the Immense progress which this mine has made in a time usually insufficient in some localities to ascertain the character of the country, the last sale of ore (two months raising) realised 1663f, whilst the pay for the last month was only 518f, showing conclusively that the mine is now working at a profit; and there is no doubt whatever but that these profits will be substantially realised by the proprietors when the following information as to the state of the underground workings is attentively considered:—When the mine was taken up by the present body of shareholders it had been standing for fifty years, the old men having sunk the shaft a little below the 50 fm. level to a side, when the adventure was abandoned, it being foliably considered that the lode was unbottomed. The new men, however, were made of better stuff. The slide in the shaft was made to disappear, and a course of ore laid open which fully justified the best hopes of all concerned in the mine's resuscitation; this course of ore has been lengthening and improving in every end since. The greatest improvement was in the 47, where they went unbottomed. The new men, however, were made of better stuff. The slide in the shaft was made to disappear, and a course of ore laid open which fully justified the best hopes of all concerned in the mine's resuscitation; this course of ore has been lengthening and improving in every end since. The greatest improvement was in the 47, where they weat through a good course of ore, worth from 50!, to 60!, per fm. for 14 or 15 fathoms. Not having met with it until they were about 14 fms. east of the sump-shaft in the 57, they had not driven more than 9 feet from the said shaft before they cut the ore, which very quickly proved to be worth 80!, per fathom, and for about 35 fms. in length was worth from 35!, to 50!, per fm. Highburrow shaft is sunk through the centre of this course of ore, and was worth for the length of shaft (10 feet) 80!, per fm., for the whole distance from the 47 to the 57. The whole of the ore between these levels is still standing, except about 150 tons sold and what is now being broke for next sampling. The quantity of ore standing between these levels is pretty accurately assertained, as there have been two winzes sunk through from level to level, one cast and the other west of Highburrow, and the lowest calculation is that there is now from 1800 to 2000 tons of ore standing in this place, which can be broken for less than 1s. in 14., and a course of ore gone down in the bottom of the 67, 35 fms. in length, worth 40!, per fathom. The shaft is now about 6 it, under the 57, and set to sink 5 fms. for 100!, or 20!, per fm, which will be down in about two months. There is also a great deal of ore ground some distance further east, about Tresider's shaft, where there are several pitches working on tribute, one at 2s. 64, one at 3s., and some others at a higher tribute; but they have not been able to do much in this part of the mine through the winter for the water, which is now going down again, and no doubt a great deal will be done there throughout the summer. They have also a shallow addit drivi May the day not be far distant! At the same time, let the renders of the Mining Journal remember that to be forewarned is to be forewarned.

MINING NOTABILIA [EXTRACTS FROM OUR CORRESPONDENCE.]

WHEAL POLMEAR.—We have been feeling our way for a long time by driving adit levels on five lodes, and have laid open eight distinct bunches of ore, but up to the present time have not proved them below those levels. Next month it will be just one year since we commenced to sink a new engine-shaft, which is now 17 fms. below adit, It is intended to put out a 15 fm. level below adit, for which they have tip-plat, &c., fixed, and are now sinking the shaft for another level. The 15 cross-cut will cut the lode in a short time, it is now driven about 14 fms. Summary of work done since last May:—The sump-shaft sunk 51 fms; adit cross-cuts driven about 20 fms.; the 16 cross-cut driven about 14 fms. Sommary of work done since last May:—The sump-shaft sunk 51 fms; adit cross-cuts driven about 20 fms.; the 16 cross-cut driven about 14 fms. engine, capstan, and pitwork fixed and working well; a grinder now putting up, and will be completed in about a month's time, so that in one year the whole of the machinery will be fixed; and as we have 200 tons of ore at surface ready for dressing, and hundreds of tons laid open ready to be taken away when required, the mine not a certain extent developed, and should the lode be cut rich at the 15 fm. level, the mine must attract considerable notice.

rich at the 15 fm. level, the mine must attract commences notices.

CARADON CONSOIS.—Mr. Edward King has been appointed secretary of this mine, the late secretary having resigned. This mine adjoins West Caradon, and are daily in expectation of cutting the Menadue lode. Up te the present time, 20,000 has been spent in machinery and in developing the property, which, being traversed by the West Caradon lodes, is likely soon to become in a productive position. It is the general opinion of the agents of the adjoining mines that Caradon Consols will eventually

vie with its rich neighbours.

Tolvadden.—Information was received in town on Wednesday from the agent at the mine that a considerable improvement has taken place at the 60.

Rhysoco Minnyo Company.—Extracts from a letter received from Mr. James Michell (of the Alderley Mines), one of the directors, dated March 21:—"As you will, probably, meet to-morrow, I lose not an hour in informing you of my return from the Rhysoco Mine, which I fully inspected yesterday, in one of the heaviest gales of wind and rain I was ever in—it was, indeed, a rough place in such weather. Being there, I gad and rain I was ever in—it was, indeed, a rough place in such weather. Being there, I gad and rain I was ever in—it was, indeed, a rough place in such weather. Being there, I gad and rain I was ever in—it was, indeed, a rough place in such weather which was at too great a distance in such stormy weather to visit. I am very much pleased with the general character of the stratification, it is so very similar to that of the Allenhead Mines of Mr. Beaumont, from which he has been making 60,000, per annum for thirty years, in Northumberland, that my practised eye could scarcely detect any difference. The lodes are strong, and almost every veri, although they might not be thicker that my finger, contains here and there spots of lead. I am decidedly of opinion they will, if worked extensively and properly, make abundance of ore. The Cwm Breft would, in small water-wheel. It is a very pretty, promising lode, and one which would, at a depth of 20 or 30 fans, in my opinion, produce an abundance of ore.

Garden Mine.—Thomas's lode, at the adit level, still holds good. The

GARDEN MINE. -Thomas's lode, at the adit level, still holds good. The will be completed next week, and it is expected the engine will be at work rom the present time.

In six weeks from the present time.

VIRTIOUS LADY MINE.—The late Capt. Goss, before his illness, was working this mine at a profit, having discovered a rich deposit of copper ore in the River Tavy during a dry season, from which he raised and sold many tons of good quality ore. There are water-whoels, crusher, and drawing machine, together with pumps, smiths' shop, &c., on the mine. There is also a never-failing supply of water for all purposes. The mine has only been worked for 25 fms. deep, from which nearly 200,0904. Worth of ore has been raised. There are several hundred fathoms of unwrought ground on the course of the lodes, and a very promising lode has been cut in two places by costeaning. It is in contemplation to work this property under the limited liability system, and there is every possible chance of its being a remunerative speculation.

East Caradon.—The caunter lode having cut rich at the 60 fm. level EAST CARADON.—The cannets lode having cut rich at the 60 fm. level, and improved in value to 60t, per fathom, speaks for the utilimate success of another prize in this rich district, and shows that a great improvement has taken place in the character of the lode at 10 fms. below the first discovery of ore at the 50. The quality of the ore at the 60 speaks well for deeper levels. The 50 has now passed through a good course of ore 67 95 fms. in length, and the eastern end continues good, so that it is quite uncertain as to the length of ore ground being laid open in this mine. The monthly sales will now rapidly increase; and it should be borne in mind there are other very important points to come off from the cross-cuts driving north to what has been considered the main lodes of South Caradon; a discovery may, therefore, shortly be expected. With such facilities for working this mine, and all the machinery erected, there can be little doubt but the dividends will rapidly increase.

NORTH HALLENBEAGLE.—The engine-house will be completed in a few ys, and in a fortnight the engine will be at work, and the necessary means adopted to k the mine. The sett is surrounded by some of the richest mines in the district, and all merits the attention of investors.

WEST CONDURROW (Camborne) .- From the report of this mine, its WEST CONDURROW (Camborne).—From the report of this mine, its prospects appear to be in a very encouraging position, and it states pretty confidently that future calls, from present appearances, must be comparatively small. It also states that "we have the necessary machinery, buildings, and other arrangements on the mine for its future operations; that all expenditure for the same, and for costs incurred to the present time (amounting, at the accounts on Jan. 3 and March 26 last, to the sum of 2548f. 14s.), are charged up; and that the present indications at different points of the mine are of a very promising character." When it is remembered that all the heavy outlay is made and charged up close, which we quite approve of, and that thin and copper to the extent of many hundreds of pounds have been soid by the adventurers from shallow levels, and that the levels and sump-shat give improved indications of mineral deposits below and for immediate returns, these are most encouraging features connected with this mine.

deposits below and for immediate returns, these are most encouraging features connected with this mine.

THE VALE OF FFRITH LEAD MINE (Wrexham) comprises the whole of the lands known as the Trimley Hall estate, which is about 84 acres, to which will be added a considerable extent of ground to the north-east, promised by the Earl of Derby and others. The sett is well adapted for mining, being bounded on the north-east by a river, from which levels can be brought in a westerly direction into the hill, thereby giving a large amount of backs, which may be worked high and dry all seasons of the year. There are six well-defined lodes, upon which shallow workings have been made from time to time, and from which considerable quantities of lead have been raised; but worked only by individual labour. The objects of the present company are to continue the adit level, which has been driven a considerable distance into the hill, and to cut down and resume the sinking of the engine-shaft, where there is a junction of lodes, as also to continue the sinking of a winze on the north lode, which is now producing very fine rocks of solid ore, with a stratification extremely promising for making a large deposit of ore in depth. A 90-inch cyllinder condensing engine has been purchased, with boiler, &c., complete, which is on the mine, and will be erected with all possible dispatch. As soon as it gets to work, and the shaft and winze sunk a few fathoms, sufficient deposits of ore will be laid open to make this mine one of the most profitable of the district. The stratum is composed of white limeatone, and the lodes are producing beautiful lead and spar, similar in all respects to the Minera, the Park, the Upper and Lower Sychnant, the Steddia, and other rich mines of the neighbourhood. There is an ample supply of water for mining operations, and coals can be had for the engine at 1s. 8d. to 3s, per ton. Samples of the ore, showing the stratification of the country in which the lodes are embedded, can be seen at the offices of the com

and also of the broker, Mr. William Lelean, Cushion-court, Old Broad-street.

WHEAT HEARLE.—They have cut the tin in the 90 west sooner than was expected; lode now worth 151, per fm. This run of tin in the 80 held, and still holds, west much further than in the upper levels, and as they now have it so soon in the 90, it shows that the tin ground is lengthening in depth, and that the deeper they go the better the mine becomes. As the sump-shaft is now sunk to the 100, and that level begun to drive towards the tin ground, it is evident that large profits must soon be given; this applies to the engine-lode only. The cross-cut now being driven south at the 50, and the 60 east towards the intersection, both to cut the south lode, are most important objects also, as if this lode is cut good, and there seems little doubt of it, the nine will become one of the richest in the West of Cornwall. For the last month the sale of tin will be about 5 tons.

NORTH GREAT WORK MINE has been now for a considerable time al-NORTH GREAT WORK MINE has been now for a considerable time almost unnoticed, in consequence of the returns of tin failing off, and instead of having a continuation of dividends two calls have been made, the last leaving the mine, after paying every liability, about 700%, in hand. Since the meeting, held on March 8, a shaft has been opened to a depth of 50 flathoms from surface, in the bottom of which a very good lode for tin has been discovered; this shaft is so situated that a level can be driven out from it to come in 10 fathoms below the run of tin ground discovered by the deep adit some 18 months ago. This ground when reached can be worked very profitably, and there are great chances of meeting with other bunches of tin between the two points, independent of that already discovered. The driving of the adit on the north lode, towards the junction of Wheal Gilbert lode (the chief object for which the mine was commenced), progresses favourably, a distance of about 16 fathoms having yet to be driven: 1500%, worth of tin has been sold from the back of the adit in 18 months, and considering the disadvantages of selling tin in the stone the yield has been extremely large for a mine of these pretentions. Arrangements have now been made whereby the company rent stamps, burning-house, floors, and every necessary for dressing the tin, within a short distance of the mine, and in all probability the first parcel of tin will be ready for the smelting-house in flow weeks from this time. The following report, by Capt. Pope, of Wheal Basset, will best explain the present position of the mine:—

April 1.—South Lode: I find the water is drained from Lloyd's shaft as deep as 10 fms.

api. Pope, of Wheal Basset, will best explain the present position of the mine:—
April I.—South Lode: I find the water is drained from Lloyd's shaft as deep as 10 fms. low the adit level, which is driven west about 8 fathoms, where the lode is 8 in. wide, outsing good work or, tin, I should say worth 87. per fathom. The 10 is driven east Lleyd's shaft 7 fathoms; lode at present split, but from its appearance I expect it il come logether in a few fathoms driving, when I have every reason to expect some ange far the better. The deep adit level, east of the eastern shaft, is driven a great stance, which has passed through several fathoms of good tin ground; the lode at prent is split into branches, but the ground appears congenial for tin, and I have no doubt a few fathoms driving will be equally good, the distance to Wheal Gilbert cross-course ing about 70 fathoms. The shallow adit is driven about the same distance, which is so poor. I should say one of these levels should be driven in order to prove this piece ground, and I have no doubt will pay the adventurers for their outlay, as well as drain a water from the cross-course, from which large returns of tin have been raised for or ground, and I have no doubt will pay the adventurers for their outlay, as well as drain the water from the cross-course, from which large returns of tin have been raised for several miles in length.—North Lode: The shallow adit is driven within about 17 ms. of the cross-course, where the lode at present is small and unproductive, but from the appearance of the stratum, which is a fine-looking killas, and very near the junction of granite, some change for the better may be expected very shortly. Looking at the mine throughout, I should say it is a good piece of mining ground, and I do not hesitate to state that if properly explored on about the cross-course large and profitable returns will be made. I also beg to state that the 10, west of Lloyd's shaft, is very near the carbona, where large returns have been made by the old workers, and I have no doubt will be equally good when met with in this level.

be equally good when met with in this level.

Calvadnack Mine.—A special meeting of the adventurers was held at Camborne, on Tuesday last; the attendance was large, and included nearly all the principal shareholders. Capt. Skewls having tendered his resignation, Messrs. C. Thomas and Son were unanimously requested totake the management, which request was cheerfully complied with. It was then proposed that the salary be ten guineas per month; hut this proposal was not put to the meeting, as Capt. Thomas stated the adventurers should have his best services, and he should be well satisfied with five guineas per month, and it was, therefore, fixed at that amount; and it is not too much to say that the entire management of the mine is now in the bands of one of the most efficient men in the county. The affairs of the mine were then very fully investigated, and it appeared that, in consequence of the west season, and an accident having happened to the plates, the water had accumulated in the lower levels, and some good tin ground could

not be reached; but, notwithstanding this, upwards of 400% worth of tin had been sold during the month of March; full 500% worth would be sold in April, and a much larger quantity in May. The "dry," which had recently been erected at considerable cost, was completed, and everything appeared to be in good working order. The general ophnion appeared to be that a 10s, call at the next meeting, in May, would pay off all the costs incurred, and then it was probable that no further call would be required. It was expected the morth lode would be reached in about three months. Capt. Thomas made a very minute and careful inspection of the mine a few days since, and expressed confidence in regard to its future prospects. The meeting closed with a vote of thanks to Capt. Thomas for the very handsome manner in which he had complied with the wishes of the meeting by accepting the management, and a vote of thanks to the Chairman, Mr. Clemence. The shareholders separated with the conviction that they have a property which may yet become exceedingly valuable.—Camborne, April 3.

CHARLOTTE UNITED is greeally improved in the 50 and 60 fm. levels.

perty which may yet become exceedingly valuable.—Comborse, April 3.

CHARLOTTE UNITED is greatly improved in the 50 and 60 fm. levels, and they expect shortly to cut the lode that has proved so rich in the levels above.

CUDDRA.—These mines have since August been drained and cleared to the ends of the levels. It is expected that the levels above the 90 will from this time produce from 40 to 50 tons of copper per month, worth from 51, to 61, per ton. The ore ground driven through in the 90 is about 30 fathoms in length, the whole of which is found standing entire, with the exception of 3 fathoms long and 3 fathoms in height, which was worked away by the old company, and produced upwards of 30 tons of black and grey copper ore, entailing from 101, to 121, per ton. This is supposed to be the beginning of a rich deposit of ore, and as the shaft will be immediately sunk below the 190 through this lode, the result will soon be proved. The lode in the bottom of the level is composed of rich grey and black copper ore, mixed with white sandy quarts, and is probably in a beautiful channel of clay-alate. It is expected that the shaft can be sunk to the 90 in two months. The tin department is opening well, and it is quite likely the stamping-engine will be set to work early in May.

Rosewall Hill. AND RANSOM UNITED.—The tin sold since the meets

ROSEWALL HILL AND RANSOM UNITED.—The tin sold since the meet-ing, for one month, was 10 tons 10 cwts., for 715f.; this quantity, but for the great fall in tin, would have given more than 300f. for the month; as it is, it will leave 200f.— [No change in the mine.]

The Mining Market; Prices of Metals, Ores, &c.

METAL MARKET-London, April 5, 1861. BRASS. Per. lb.
Sheets 9\\\4d.-10d.
Wire 9\\\4d.-9\\\4d.
Tubes 10\\\4d.-11d. Coplago, p. 1b. 0 1 0 -0 1 0 1/2
Copper wire ..., p. 1b. 0 1 0 -0 1 0 1/2
ditto tubes ..., 0 1 1 - ...
Sheathing & bolts ..., 0 0 11 - ...
Bottoms ..., 0 1 0 - ...
Old (Exchange) ..., 0 0 9 1/2 - ... | Ditto, Nation | Ditto, State | Ditto | Ditto

REMARKS.—The Metal Market exhibits very little activity, but after the stagnation that has so long existed even the small business at present doing is exceedingly welcome. The demand for export, both to the Continent and to India, has improved, and the further reduction in the Bank rate will, doubtless, have a beneficial effect by encouraging speculation, which, when money is dear, is almost unknown. About the only drawback to a good spring trade is the unfortunate state of things existing in America, which precludes all business with that market, and thereby closes one of the hitherto largest outlets for metals.

America, which precludes all business with that market, and thereby closes one of the hitherto largest outlets for metals.

COPPER.—Much greater firmness is evinced in all descriptions of English; smelters, however, still find a difficulty in realising full prices. The demand for manufactured is pretty good, but hardly sufficient to keep makers fully employed. Foreign has scarcely undergone any alteration since our last report, quotations remaining the same. The market, if anything, a shade firmer. Yellow metal in fair enquiry.

IRON.—Railway bars are still to be purchased as low as 5l., f.o.b in Wales: very little doing. Merchant bars in fair request for India at 6l., f.o.b. in the Thames. The export demand for Staffordshire makes has slightly improved, but manufacturers are still fair from busy, a good many only working about half their usual strength. Stocks have accumulated greatly during the late depression, and are still heavy. Swedish of ordinary specification in less demand, at 11l. 5s.; broad sizes enquired for, and scarce. Scotch pigs inactive, at 47s. 3d., m.n.

nary specification in less demand, at 111. 5s.; broad sizes enquired for, and scarce. Scotch pigs inactive, at 47s. 3d., m.n.

Lead.—In English pig a tolerable business is doing; prices are rather easier, at 211. for common brands, and 221. 5s. for W.B. Sheets and shot neglected. Soft Spanish pig saleable to a limited extent, at 201. 5s.

Spelter.—This metal has altered its position very little during the week; some parcels have changed hands at 181. 5s. for cash, in warehouse and for arrival, at which price there are still a few sellers. The stock here on March 30 was 3980 tons, showing a diminution of upwards of 100 tons since the end of February.

Zinc.—Sheets, 241.

nere on March 30 was 3980 tons, showing a diminution of upwards of 100 tons since the end of February.

Zinc.—Sheets, 24l.

Tin.—The tin market is extremely dull, and smelters of English have to-day announced a further reduction of 4l. per ton, making present quotations for block and ingot 120l.; bars, 121l.; refined, 122l. In foreign, business is reported to have been done in Straits during the past week at 116l. 10s, for eash, and 117l. with long prompt. Banca, 122l. (nominal). The price of Straits since the decline in English will be about 115l. to 116l.

Tin.Piargs.—It must in the present state of trade a take some account.

TIN-PLATES.—It must in the present state of trade take some some con siderable time for this article to recover itself sufficiently to render manu facturing profitable; a better demand has lately sprung up, and the fall in tin will benefit makers; higher prices are already quoted—23s. to 23s. 6d. now being asked for ordinary brands, which were to be bought last week at 6d. to 1s. per box lower.

Steel.—Swedish keg and faggot quiet at quotations. English no

much enquired for.

LIVERPOOL, APRIL 4.—Since the preliminary meeting, on March 28, there has been considerably more business doing in this market, and buyers appear to have more confidence. Prices of both Staffordshire and Welsh appear to nave more conneince. Frices of our Standushire and weigh iron are steady, and although some large sales of the latter were reported at 5*l*. per ton a few days ago, no good brands can now be bought under 5*l*. 2s. 6d. to 5*l*. 5s. per ton. Copper and block-tin are without further change, but the demand is only moderate. Tin-plates are in fair request, and sellers now quote 22s. 6d. for coke IC as the lowest. Scotch pigs are a fraction lower than this day week, but the market closes with a firmer tone. The reduction in the Bank rate of discount to-day to 6 per cent., will no depth strengthen the position of the metal, market generally. will, no doubt, strengthen the position of the metal market gener

WOLVERHAMPTON.-From Mr. S. Griffiths' "Iron Trade Circular:" Current prices of pig iron (corrected to Thursday evening):—Staffordshire cold blast, 4l. 5s.; Old Windmill End Mine, Nos. 1, 2, and 3, melters, made with Lord Ward's thick coal warm air, 4k.; Old Windmill End Mine Forge pig-iron, made with Lord Ward's thick coal, 3l. 12s. 6d.; best native hydrate pigs, 3l. 10s. to 4l.; first-class All Mine grey forge pigs, Mine Forge pig-iron, made with Lord Ward's thick coal, 3l. 12s. 6d.; best native hydrate pigs, 3l. 10s. to 4l.; first-class All Mine grey forge pigs, 3l. 5s. to 3l. 10s.; good mine pigs, with a modicum of flue cinder, 2l. 10s. to 2l. 15s.; mine pigs, deteriorated by cinder, 2l. 7s. 6d. to 2l. 12s. 6d.; Cleator Moor hematites, 3l. 7s. 6d. to 3l. 10s.; Barrow hematites, 3l. 7s. 6d. to 3l. 10s.; Workington hematites, 3l. 7s. 6d. to 3l. 10s.; Kirkless Hall hematites, 3l. 6s. 3d. to 3l. 8s.9d.; grey forge cinder pig-iron, 2l. 5s. to 2l. 10s.; white forge cinder pigs. 2l. 2s. to 2l. 7s. 6d.; ordinary melters, Nos. 1, 2, and 3, 2l. 12s. 6d. to 2l. 17s. 6d.; superior makes of mine melting iron, 3l. 2s. 6d. to 3l. 5s., according to make and quality. The above prices are all delivered on to the wharves at the South Staffordshire manufactories. Favourite Shropshire and Forest of Dean brands, 4l. 5s. delivered; northern hematites, from 3l. 5s. to 3l. 10s., according to brand or quality.

COAL MARKET.—On Monday the arrival of 89 fresh ships caused a very dull market for house coals, at the prices of last week. Hartley's were in short supply, and realised an advance of 6d. per ton. Manufacturers' without alteration. Best house coals, 17s. 6d. to 18s. 6d.; seconds, 15s. to

16s. 6d.; Hartley's, 15s. to 16s.; and manufacturers', 13s. to 15s. per ton.

—Wednesday: Only four ships having arrived, the tone of the market for house coals was stronger, but no improvement in prices. Hartley's, owing to the small quantity on offer, obtained an advance of 1s. per ton, sales being made at 17s. per ton. Manufacturers' steady at Monday's prices.—Friday: 37 arrivals. The market was firm for all descriptions of coal at Wednesday's prices. South Hetton Wallsend, 18s. 6d.; Haswell Wallsend, 18s.; Eden Main, 16s. 6d.; and Hartley's, 16s. 6d. to 17s. per ton.—25 cargoes unsold; 80 ships at sea.

Importation of coals into London by sea in the month of March, 1076 ships. containing 348,172 tons, being a decrease on the corresponding

ships, containing 348,172 tons, being a decrease on the corresponding month last year of 4820 tons. Importation of coals into London by railway and canal in the month of March, 168,166 tons, being an increase on corresponding month of 1860 of 44,888 tons.

The MINING SHARE MARKET, since our last, has been much interrupted by the holidays, but owing to the further reduction in the Bank rate of discount, and what is considered more favourable news from America, rather more activity has been observed in shares generally, and several shares which have been depressed more than prospects seemed to ustify have been enquired for and in demand. The dividend mines for this most part are flat, caused, no doubt, by the absence of any exciting improvements, and the reduction in many cases, and the suspension in some, of the usual dividends, owing to the delays caused by the severe weather two months ago. Those chiefly dealt in have been East Caradon, Marke Valley, Wheal Seton, South Frances, East Basset, West Caradon, Wheal Clifford, &c. In other mines, East Grenville, East Russell, Great Alfred, Great Retallack. Alfred Consols, West Sharp Tor, Sortridge Consols, Greaville, East Carn Brea, Stray Park, New Seton, North Minera, Billins, West Bryn Gwiog, Trevoole, Trelyon Consols, and a few others, have been chiefly dealt in. South Frances have been flatter, and more freely offered at 145 to 155. Wheal Ludcott, 3½ to 3½; at the meeting no dividend was declared, owing to an accident, and the frost causing a delay in the sampling. The mine is understood to be looking well. East Caradon rose after our last to 19½, 20, but on Tuesday (Monday having been a holiday) declined to 18½. On Thursday they opened 17½ to 18½, and afterwards rose to 18½, 19. The shares have fluctuated very much during the week, owing almost entirely to market operations, as the mine has steadily improved from the time the lode was cut. It is said there were heavy "bears" at the last account-day, and that the shares have not all most part are flat, caused, no doubt, by the absence of any exciting improvesteadily improved from the time the look was call. It is said there were heavy "bears" at the last account-day, and that the shares have not all been delivered, and to get them in all sorts of means are resorted to to get down the price. Thus, as we have frequently written before, the bona fide holders of a first-class property see it depreciated in value, and the public are bewildered and prevented investing by the hourly fluctuations they see quoted, but cannot understand, and which are caused to suit the operations of mere jobbers in time bargains. We stated last week that it was considered by some that the led our in East Caradon was not at the state of th they see quoted, but cannot understand, and which are caused to suit the operations of mere jobbers in time bargains. We stated last week that it was considered by some that the lode cut in East Caradon was not the "caunter;" it is now, however, understood to be so, though the cross-cut is being continued to intersect the south part of it, so as to drain a winze commenced from the south part of this lode in the 50. The value of the lode as cut through in the 60 is 55! per fathom. Notwithstanding the attempts of the "bears," the shares leave off firmer, at 19 to 19\frac{1}{2}.

Marke Valley shares have been in good request at 6\frac{1}{2} to 7. Alfred Consols, 2\frac{1}{2} to 3\frac{1}{2}; Bedford Consols, 3s. 6d. to 5s.; Bryn Gwiog, 31 to 33; Carn Brea. 87\frac{1}{2} to 92\frac{1}{2}: Calstock Consols, 11s. 6d. to 13s. 6d. Cook's

Consols, 2½ to 3½; Bestort Consols, 3s. 6d. to 5s.; Bryn Gwlog, 31 to 3s; Carn Brea, 87½ to 2½; Calstock Consols, 11s. 6d. to 13s. 6d. Cook's Kitchen, 15 to 16; it is understood that a dividend will be declared at the meeting, in about a month's time. Calvadnack, 2 to 3; a special meeting of the shareholders was held in Cornwall on Tuesday, when, at the request of the holders of about 700 shares out of 900, Capt. Charles Thomas again resumed the management of the mine; and from a thorough inspection of the holders of the six and the management of the mine; and from a thorough inspection of resumed the management of the mine; and from a thorough inspection of it, he thought that with the present price of tin it could be worked at a trifling monthly loss. Devon Great Consols, 340 to 350; Ding Dong, 9 to 11. Wheal Basset shares have been flatter, and leave off 97½ to 100, ex div.; at the meeting the accounts showed a profit of 8911. 1s. 6d. on the two months, and a dividend of 2l. per share (1024L) was declared, leaving 1043L 11s. 6d. in hand. The cross-cut at the 100 south, from Carnkie shaft, is being extended, for the purpose of cutting the south lode 55 fathoms deeper than any other level on this lode, and expect to cut it shortly. The pitches in copper and tin in the different lodes are described as producing average quantities of copper and tin. New Treleigh, 40s. to 45s.; the new lode lately cut in the cross-cut south at the 70 will produce full 2 tons of ore per fm. Drake Walls, 17s. 6d. to 20s.; East Basset, 102½ to 105. East Carn Brea shares leave off 8½ to 8½, and firm; the report, which is very favourable, states the 26 west is worth 2 tons of copper ore per fm.; the winze below the 26 is yielding 6 tons per fm.; the 40 west, 3 tons, and within 2 fathoms of being under the winze; the ore sampled, port, which is very lavourable, states the 26 west is worth 2 tons of copper ore per firm; the winze below the 26 is yielding 6 tons per fir.; the 40 west, 3 tons, and within 2 fathoms of being under the winze; the ore sampled, 46 tons, yields a produce of 11½ per cent. Gawton United, 48. 6d. to 6s. 6d.; Grambler and St. Aubyn, 19 to 20; Great Wheal Fortune, 8½ to 9½. Trevoole shares have been in good demand, and advanced to 5½, 5½; the mine is said to be opening out a large extent of ore ground, which will considerably increase the future samplings. Herodsfoot, 37 to 39; Kelly Bray, 1½ to 1½; Lady Bertha, 19s. 6d. to 20s. 6d.; North Basset, 5½ to 6; North Downs, 4 to 4½; North Minera, 37s. to 38s.; North Robert, ½ to 1; North Treakerby, 25 to 26; Pendeen, ½ to 1; North Treakerby, 25 to 26; Pendeen, 5 to 5½; Bottle Hill, 24s. to 26s. East Grenville shares have kept in good demand all the week at 28s. to 31s., and leave off 28s. to 30s.; the lode in the shaft below the 26 is worth 30l. per firm. for copper, and holding out great prospects. Craddock Moor, 25 to 27; the dividend here was 4s. per share; the balance in favour of the company was 1004l. 7s. 5d. At the North Grambler meeting the accounts presented showed a balance of 793l. 4s. 7d., and a dividend (the first) of 10s. per share (683l.) declared. The agents reported that the lode in the 65, east of new shaft, is worth 12l. per firm.; the 40 end, 12l. per firm. Providence Mines, 38 to 49; Sortridge Consols, 11s. 6d. to 12s. 6d.; South Basset, 14 to 16; South Condurrow, 16s. to 18s.; South Tolgus, 42½ to 45; Stray Park, 35½ to 36; Tranar Consols, 14s. 6d. Tirgersh, 5d. to 5d. Tolgusden, 24 2d. Treasure Consols, 14s. 6d. Tirgersh, 5d. to 5d. Tolgus, 42d. to 46; Stray Park, 35½ to 36; Tranar Consols, 14s. 6d. Tirgersh, 5d. to 5d. Tolgusden, 24 2d. Treasure Consols, 14s. 6d. Tirgersh, 5d. to 5d. Tolgusden, 24 2d. Treasure Consols, 14s. 6d. Tirgersh, 5d. to 5d. Tolgusden, 24 2d. Treasure Consols, 14s. 6d. Tirgersh, 5d. tolgus demander of the consols and the con

ridge Consols, 11s. 6d. to 12s. 6d.; South Basset, 14 to 16; South Condurrow, 16s. to 18s.; South Tolgus, 42½ to 45; Stray Park, 35½ to 36; Tamar Consols, 1½ to 2½; Tincroft, 5½ to 5½; Tolvadden, 2 to 2½; Trelyon Consols, 12½ to 13½; Vale of Towy, 8s. to 9s.; West Frances, 15 to 16; Wheal Arthur, 4s. to 6s.

Great Retallack shares have been flatter, at 26s. to 28s.; the new lode lately cut is 5 feet wide, and very promising for the depth, 4 fms. Wendron Consols, 16 to 18; we understand no dividend was declared at the meeting, owing to the decline in the price of tin, and the reasons which seems to be affecting all mines for the time. Dolconth, 470 to 490; the fall of tin is said to make a difference of at least 1000% a month in the profits of this mine. East Wheal Russell advanced to 7½, and a large business done, but leave off 6½ to 7; in the 100 cross-cut north a portion of profits of this mine. East Wheal Russell advanced to 74, and a large business done, but leave off 64 to 7; in the 100 cross-cut north a portion of the lode is found to be standing, and producing fine stones of red oxide and green carbonate of copper. A good improvement is expected at this point. West Caradon, 74 to 76. West Sharp Tor, 35 to 40; the report states that 2½ feet have been cut into the orey part of the lode in the 150 cross-cut, and it is composed of gossan of the finest description, quartz, and prian, impregnated with rich crystallised native and red oxide of copper, and also about 8 or 9 ozs. of silver per ton of ore. Wheal Buller, 115 to 120; Wheal Grenville, 2½ to 3; Wheal Kitty (Lelant), 12 to 13; Wheal Margaret, 46 to 48; Wheal Mary Ann, 13 to 15; Wheal Moyle, 37s. 6d. to 42s. 6d.; Silver Vein, 2½ to 3; Wheal Seton, 82½ to 87½; Wheal Tre-lawny, 12 to 13, and in good request; the lode in the 152 south is worth 20l. fm., and driving at 4l. per fm. Michell, 7s. 6d. to 8s. 6d.; the lode in the shaft, 3 fms. below surface, is from 4 to 5 feet wide, with fine stones of lead ore occasionally, and a good-icoking lode. Wheal Uny, 3½ to 4½. in the shaft, 3 ms. below surface, is from 4 to 5 feet wide, with fine stones of lead ore occasionally, and a good-icoking lode. Wheal Uny, 3½ to 4½, East Budnick, 10s. to 11s.; Wheal Unity, 10s. to 12s.; Wheal Unity, 2½ to 2½. Trumpet United, 8s. to 10s., and the mine is looking very promising; the lode is worth 9½ per fm. in the shaft. United Mines, 35 to 40; at the meeting on Wednesday the accounts, crediting three sales of ore against two months; cost, show a loss of 2515½, 9s., and a balance against the mine of 2425½, 2s. 1.3. April of 5 ms. the cooks. 40; at the meeting on Wednesday the accounts, crediting three sales of ore against two months' cost, show a loss of 2515%. 9s., and a balance against the mine of 3485%. 3s. 1d. A call of 5% per share (2000%) was made, still leaving a debt of 1485%. 3s. 1d.; and as the report offers very little prospect of improvement, the state of the mine becomes a matter of serious consideration to the shareholders who are not connected with the supplies to the mine. In the accounts, the merchants' bills are 1191%. 0s. 3d., and coals 1600% for two months! West Revn Gwing. 27 6, 32. Billion. coals 1600%, fo two months! West Bryn Gwiog, 37 to 38; Billins, 21 to 22. Dale, 12s. to 13s.; the Pipe vein continues good.

On the Stock Exchange few transactions have been effected in Mining

6, 6\frac{1}{6}, 5\frac{1}{6}, 5\frac{1}{6},

The following are the Government Returns of the exports of articles identified with mining, the produce and manufacture of Great Britain, for the two months ending Feb. 28, 1861; and also as compared with the two months ending Feb. 28, 1860; extracted from the "Accounts relating to Trade and Navigation," published by the Board of Trade:

— DECLARED VALUE FOR THE TWO MONTHS ENDING FEBRUARY 28.

DECLARED VALUE FOR THE		THE ENDING P		D
	1860.			Decrease
Coals and culm £	372,189	A		
Hardwares and cutlery	531,360	********	442,961	£ 88,399
Machinery:-		and the same of		
Steam-engines £113,564		£111,230		
Other sorts 342,915 =	456,479	327,705=	438,935	17,544
Total£	,360,028		1,285,210	
Metals:-Iron-Pig £ 79,487		£ 92,632		
Bar, bolt, rod 310,359		208,910		
Railway 346,979		351,814		
Wire 45,242		27,648		
Cast 76,221		68,538		
Wrought 389,718=	1.948,006	337,676=	1,087,218	160,788
Steel	148,338		98,657	
Copper -Unwrought 177,562		94,037	,	
Sheets 250,250		168,792		
Wrought 36,890=	464,702		290,047	174,655
Brass	23,816		24,388	
LeadPig 61,557	-0,010	55,636		
Ore 24,111=	85,668		72,590	13,078
Tin—Unwrought 42,505	00,000	47,915	**,000::::	20,010
	264,682	88,941=	136,856	127,826
Plates 222,177=	201,004	00,041-	100,000	201,040
Grand total	C9 595 940	4	2,994,966	£631.971
Less increase—coals and culm, 31,1	251.; bras	8, 5724	**********	31,697

At Pool Ticketing, on Thursday, 3831 tons of ore were sold, realising 19,797l. 16s. 6d. The particulars of the sale were—Average standard, 135l. 6s.; average produce, 5½; average price per ton, 5l. 3s. 6d; quantity of fine copper, 224 tons 4 cwts. The following are the particulars:—

Date.	Tons.		Stan	dard.	1	rodu	08.	Price	per	to	n.	Ore c	opp	er.
March 7	2893		£126	9 0		. 75%		.£6	18	0		£90	7	0
. 14	2975		130	8 0		. 65%		. 5	17	0		. 88	13	0
21	5056	*****	131	17 0	*****	. 6%		. 5	12	0		. 88	10	0
April 4	3831		135	6 0		. 578	*****	. 5	3	6		. 88	6	0
Compared w	rith la	ast wee	ek's	sale,	the :	adva	nce h	as b	een	iı	a the	star	nda	rd
12s., and in	the p	rice pe	r ton	of c	ore ab	out 1	s. (Comp	pare	d١	with	the c	OFF	e-
sponding sal	e of l	ast mo	nth.	the o	declin	e has	beer	in i	the	sta	indar	d 21.	, aı	nd

in the price per ton of ore about 2s. 6d. At Wheal Basset meeting, on Tuesday, the accounts for January and February showed—Balance last audit, 11761. 10s.; copper and tin sold, 34441. 7s. 4d.; discounts, 6f., 5s. 9d.—4627f. 3s. 1d.—Aline cost, inerchants' bills, and sundries, 25991. 1ls. 7d.: leaving credit balance, 20671. 1ls. 6d. The profit on the two months working was 8911. 1s. 6d. A. dividend of 10241. (2f. per share) was declared, and 10431. 1ls. 6d. arried to credit of next account. They are still driving the 100 cross-cost south from Carokie shaft for the purpose of cutting the south lode, which they expect to do shortly, and which will be 55 fms. deeper than any other level oc this lode. The pitches on copper and tin on the different lodes are still producing average quantities of copper and tin.

copper and tin.

At the Wicklow Copper Mine Company meeting, in Dublin, on March 30 (Mr. J. Barton in the chair), the accounts for the half-year ending March 1 showed—Coppery pyrites, pyrites, riddlings, &c., sold from Ballymurtagh, 28,5361. 14s. 8d.; miners' rents and transfer fees, 43f. 8s. 4d. =28,5781. 18s.—Mine cost, merchants' bills, and sundries, 13,4741; leaving a credit balance of, being the profit for the half-year, 15,1041. 18s. The balance of assets over the liabilities was 37,5261. 18s. 4d. of the half-year, profit, 2½ per cont., 3771. 12s. 5d. was deducted and added to the indemnity fund against bad debts; and a dividend of 2f. 12s. 6d. per share, free of income tax, was again on the estimate of the sum of 16021. 8s. 4d. of the surplus fund. There had been a gain on the estimate of the old outstanding smalls, and on the estimates of the March and Sept. half-years of 1890, amounting to 11361. 18s. 4d., which, with the surplus of 13371. carried over from the last half-year, had enabled the directors to pay for the first part of the new engine, engine-house, and lighter, without any material reduction of the surplus fund. Arrangements had been made by which cash was paid for the ore, and everything delivered was paid for, and by it theywere making 40001, or 50001. a year. The retiring directors were re-elected. Details elsewhere.

The Cwm Erfin Mining Company, on March 28, declared a dividend

of 8504, 5s. (15s. per share).

At North Grambler Mine meeting, on March 26, the accounts showed—Balance last audit, 4634, 13s. 1d.; copper ore sold (less dues, 1-15th), 10644, 7s. 2d.= 15184, 0s. 3d.—Mine cost, Nov. to Jan., 3464, 7s. 9d.; tributers' balances, 2034. Ls. 10d.; merchants' bills, 1704, 6s. 1d.; leaving credit balance, 7984, 4s. 7d. A dividend of 6834. (10s. per share), was declared, and a balance of 1154, 4s. 7d. carried to the credit of the next account. The report of the agents (Capts. Joseph Vivian and W. Pascoo) sized that the lode in the 65, east of new shaft, had improved both in size and appearance. It was now 3 ft. wide, and worth 12t. per fm., and looked kindly for further improvement, and could be driven for 7t. per fm. In the 40, driving west on south lode, from the rise over the 50 cross-cut, at the new shaft, the lode was 2 ft. wide, composed principally of goosan, occasionally impregnated with copper ore. There were 14 men on tribute, at an average of 6s. In 14.

At Cardidock Moore his monthly meeting, on March 26 (Mr. J. Philp in

bute, at an average of 6s. in 1l.

At Craddock Moor bi-monthly meeting, on March 26 (Mr. J. Philp in the chair), the accounts showed—Balance last audit, 10591.7s.8d.; ores sold, 19041.14s.4d.; carriage, 64l. 6s. 2d.=9028l. 8s. 2d.—Dividend paid in Jan., 211l.; agencies, labour cost, &c., 1206l. 6s. 1d.; doctor and club, 17l. 9s. 4d.; merchants' bills, 44ll. 6s. 2d.; sundries, 25l. 13s. 6d.; lords' dues, 122l. 4s. 10d.: leaving a credit balance of 1004l. 7s. 8d. A dividend of 211l. (4s. per share) was declared, and 793l. 7s. 3d. carried to credit of next account. The profit on the two months' working amounted to 155l. 19s. 9d. The agents report that since the last meeting Taylor's lode has been cut at the 42, north of Fox's shaft, worth about 1 ton of ore per fm. Edmund's engine-shaft is 9 fms. below the 84, and ground more favourable for sinking. The next bi-monthly sale will be about 260 tons of good quality copper ore.

At Wheal Ludcott general meeting, on March 26, the accounts showed.

At Wheal Ludcott general meeting, on March 26, the accounts showed—
Balance last audit, 1980f. 16s. 2d.; ores sold, 1428f. 19s. 4d.—3406f. 15s. 6d.—Dividend paid Dec. last, 960f.; labour cost, agencies, &c., 1247f. 9s. 6d.; lords' dues, 121f. 4s.; doctor and club, 20f. 19s. 6d.; merchants' bills, 878f. 18s. 8d.; sundries, 89f. 3s. 10d.; bank interest and commission, 16f. 12s.: leaving a credit balance of 422f.8s. The agent reports that in consequence of the increase of water in the bottom of the mine the sale of ore has been delayed three or four weeks, and, therefore, only one parcel sold during the quarter, and as the full cost is charged up the accounts will be in a better position in future.

the quarter, and as the full cost is consign up the securing, on March 21, the direction in future.

At the Pant-y-Buarth Mining Company meeting, on March 21, the direction of the control of the property of the control of the c

considered highly satisfactory. Mr. G. Rice tendered his resignation of the purs which was received, with the unanimous thanks of the shareholders for his past ion to the affairs of the company. Mr. Edward King, of 27, Austinfriars. was app

tion to the armirs of the company. Air. Edward Ring, or March 26, the accounts the future purser.

At Great Wheal Baddern Mine meeting, on March 26, the accounts showed a debit balance of 6381. 17s. 11d. A call of 4s. per share was made. Mr. C. Hill (the Chairman) accompanied by Mr. Mortimer, of Exeter, had visited the mine, and found the machinery in good working order, and the mine looking so well that the best results may be expected by the adventurers as imminent.

At South Wheal Lovell meeting, on March 27, the accounts for the four months ending December showed—Balance last audit, 37l. 10s. 3d.; mine cost, merchants' bills, and sundries, 8031. 18s. 10d.; dues, fees on Duchy lease, &c., 64l. 12s. 596l. 1s. 1d.—Tin sold, 224l. &c. 6d.; calls received, 153l. 12s.: leaving debit balance, 518l. 3s. 7d. The loss on the four months' working was 634l. 5s. 4d. A call of 10s. per share was made. Captain T. C. Burton reported upon the various points of operation. They hope to sell one month's tin (about 100l. worth) in the first week in April.

At the East Treakerby Mine meeting, on Monday, the accounts for the

They hope to sell one month's tin (about 100), worth) in the first week in April.

At the East Treskerby Mine meeting, on Monday, the accounts for the four months ending February showed—Balance last audit, 544; 11s. 6d.; mine cost, 6354. 16s. 2d.; merchants' bills, 442; 10s. 9d.—1692; 18s. 5d.—Call made December, 1024; : leaving debit balance, 598; 18s. 5d. A call of 15s. per share was made. Mr. Downing was instructed to commence proceedings to compel immediate payment of the arrears of call. The report of the agents (Capts, J. Nancarrow and R. Knuckey) was read, which stated that the engine-shaft was down 18½ fins, below the adit, and that they intended driving north and south in the 20 to reach the lode already gone through, and another ounth of the shaft, and then to get below the old workings, when something valuable was expected to be met with. The surface work had been completed, and their attention would now be directed exclusively to the sinking and developing the mine, in the doing of which the monthly cost would be considerably less than before, with every prospect of being amply reposid. "The high opinion entertained of this district may be judged of from the facts that the two or three mines already worked have opened up well; that all the remaining ground is secured for mining purposes; that in addition to the powerful engines already erected, and in ourse of erection, two are to be erected immediately in the ground adjoining this sets, on the west and south-west; that ther searcely such activity shown, nor amount of capital being expended in the workin

outlay will lead to valuable discoveries and good profits. Messrs. John Taylor and Sons (the managers of the Minera Mines) are to be the mining engineers.

At the Camborne Vean Mine meeting, on March 27, the accounts for the four months ending February showed—Balance last audit, 1920. 2s. 9d.; mine cost, 1760. 17s. 10d.; merchants' bills, 852. 16s. 3d.; tribute pay on ore sold, 87l. 17s. 2d.; tribute subsist, 151l. 9s. 9d.; proportion of loss in Wheal Francis (3-4ths), 116l. 10s. 3d.; rent, 60l.; interest and commission, 10l. 17s.—4959l. 11s.—Call, 2300l.; copper sold (less dues, 1.20th), 400l. 18s. 7d.; tin (less dues, 1.20th), 21ll. 13s. 2d.; crushing ore for Stray Fark adventurers, 23l. 3s.; water rent from Wheal Francis, 82l. 3s.; leaving debit balance, 194ll. 11s. 3d. The Wheal Francis account for four months ending Feb. showed—Mine cost, 71l. 17s. 4d.; Camborne Vean adventurers water charge, 82l. 3s. = 1344. 0s. 4d. A call of 10s. per share was made. The committee reported that having given the fullest consideration to the proposals of Mr. Reynolds, in reference to the land necessary for the steam-stamps and dressing-floors, and to the working of Wheal Francis through his property, they had come to the conclusion that before any reply should be given to him it would be desirable to have the mine inspected by two competent agents, and they had asked Capits. Chas. Thomas and W. Teague to inspect and make a report on an early day. The purser was, therefore, requested to inform Mr. Reynolds that he should have a reply as soon as possible, and full powers were given to the committee to make a such agreement as they might think right with the lord, and also to make arrangements for the erection of a steam-stamps if they deemed it prudents to do. The name of Mr. T. S. Bolitho was added to the committee of management. A vote of thanks was passed to the committee for their valuable services. The report of the agents (Capit. W. Bawden and N. Clymo), referring to the south lode, its report of the agents (Capit. W. B

drawing by the time the surface operations were completed. With regard to the main lode, the report stated that they had kept their full power in prosecuting the shaft, and, consequently, had not increased their hands in other parts of the mine.

At the New Wheal Vor and East Wheal Metal meeting, on Wednesday, the accounts for three months showed—Tinsold, 5721. 19s.; calls received, 8681. 16s. 10d.; loans received, 8681. 16s. 10d.; loans received, 8681. 16s. 10d.; loans paid off, 6341. 17s. 11d. =24251. 18s. 10d. The balance against the mine upon the asset and liability account has been increased from 26721. 2s. 7d. to 29461. 18s. 4d. Mr. 6t. 7. 01dfield, the secretary, read the agents report, in which the prospects of the various points in the mine were detailed. He also read a letter, in which the captain explained that the cross-cut in the 50 had been going on for so short a time that it was not necessary to report upon it; he hoped, however, that some weeks before the next meeting he would be in a position to report that the shaft had been sunk to the 60, and that they had a good course of tin. The plans and sections of the mine were exhibited, and the secretary explained that the intersection of Smith's lode was an important point, and as the dip appears to have been greater than was expected they would have a shorter distance to drive to reach it—they were now, indeed, within about 6 fms. The change of dip was very advantageous to the mine. Only one cross-cut was being driven to intersect Smith's lode, as it was merely a trial; they would like to see the value of the lode before incurring unnecessary expense. He thought there was no doubt that in depth Smith's, Gorton's, and Bramble's lodes would combine to form one large deep the subject of the shaft. After discussing the immediate financial requirements of the mine, and of lose, per share was unanimously agreed to, and the secretary was authorised to proceed at once for all arrears—especial reference being made to the amount due from Mr. Pickup. It was

At the Governor and Company of Copper Miners in England annual court, on Wednesday (Sir J. H. Pelly, Bart., in the chair), the profit and loss account showed the sum of 1490t. 15s. 9d. against the company, which unsatisfactory result was mainly owing to the competition in the iron and tin-plate trade, the unsettled condition of the Continent, and the threatened disruption in the United States. The liabilities of the company were lower than last year, even including a loan of 25,000f. from the bankers. The sum of 2727t. had been paid out of revenue for old improvements, and 4373t, laid out in new, making the balance at present standing to the debit of this account 6165t. Details appear in another column.

out in new, making the balance at present standing to the debit of this account 61851 Details appear in another column.

At the Lagunazo Mining Company meeting, on March 28 (Mr. John Bethell in the chair), the accounts showed that 26551, 12s. 6d, had been received it calls, of which 6081. 6s. 10d. remained unexpanded. To provide increased floatin capital the directors were authorised to call up the remainder of the capital as required instead of 2s. 6d. every three months. The retiring directors were re-elected. The directors' report was submitted. It appears that the mines, except the Anibal, wer granted to the Imperial Cobriza Company (of which Colonel Stopford is the representative) by the original owners—Messra. Rieken and Diaz—at a royalty of 2s. 2d. per ton and that the property was afterwards transferred to the Lagunazo Company by the lessees, on condition that the Lagunazo Company should pay the 2s. 2d. royalty, plu 25 per cent. of the nett profits. It has since been discovered that the Imperial Cobriz Company had no power to sell, having failed to carry out the conditions of their contract with Messra. Rieken and Diaz.—To avoid being elected from the mines, the directors of the Lagunazo Company were compelled to agree to deposit 1000L, to be repaid out of the royalties accruing, and to guarantee 10 per cent. of the nett profits of the com pany to Mossra. Rieken and Diaz.—To meet this latter condition the Imperial Cobriz Company agreed to reduce their proportion of profits from 25 per cent. to 15 per cent.

At the Nerbudda Coal and Iron Company meeting, on Thurslay (Mr. H. Haymen in the chair), the directors' report and the statement of accounts, which have already appeared in the Journal, were unanimously adopted. Special resolution were passed, increasing the qualification of directors to 100 shares, and authorising the issue of debentures for any sum not exceeding 5 per cent., such debentures to any sum not exceeding 5 per cent., such debentures to have the option of conversion into the ordinary shar

LEEDS, APRIL 4.—The Mining Share Market has remained quiet dug the week, and the amount of business done has been moderate; there have been portant alterations in prices.—Hebden Moor, 1½ to 1½; Merryfield, 4s. to 6s.; Ni

The Kapunda Mining Company, on Wednesday, sold 20 tons of copper 99l. per ton, below which price it is not their present intention to sell. Trprice of Copiapo ingot copper is 94l. 10s. to 95l. per ton.

The ninth annual Court of the Governor and Company of Copper Miners in England was held on Wednesday, when it was stated that, owing to the depressed state of the iron and tin-plate trades, the company's progress during the past year had not been marked with that satisfactory result which has uniformly attended its previous operations. While this discouraging circumstance, which it has been entirely beyond the power of the executive to avert, is to be regretted, it is satisfactory to know that such steps have been taken as have rendered the undertaking better prepared than it has ever hitherto been to meet any future exigency, and that the company is in an essentially sound and safe position.

LEAD ORES.

		rue ra					
	Tons.	F	rice	per			Purchasers.
Frongoch					0 .		Sims, Willyams, & Co.
ditto				11	0 .		Panther Co.
East Darren	112		15	3	0 .		Sims, Willyams, & Co.
ditto	34		15	0	0 .		Panther Co.
Goginan	34			6	0 .		Sims, Willyams, & Co.
ditto	21		17	0	0 .		ditto
Cefn Brwyno							
Cwm Erfin							
ditto	20		17				Bibby, Sons, & Co.
Tenders for 500 tons of Lead Or	, fron	n the h	INE	RA I	MINE	s, W	rexham, on April 2.
LOT 1					0 .		Walker, Parker, & Co.
2					6 .		ditto
3				1			ditto
4							ditto
5							ditto
6					6 .		ditto
7	. 10	*****			6 .		ditto
8		the 3d		ril.			
Dyliffe		*****					Adam Eyton.
ditto							Newton, Keates, & Co.
Rhoswydol	231	4	12				Walker, Parker, & Co.
Dyfngwm	203	6	13		6		A. Courage & Co.
Llanerchyraur	. 25		13		6 .		ditto
Caylan		6					Walker, Parker, & Co.
Laxey	100		16	9	0		Sims, Willyams, & Co.
			-	-	_		
	-						

Te	md	lar	a fi	r 1	30	tor	18 0	of I	Ble	nde		om.					M	INI	s. W	rexham, or	Anril	9.
1 2 3					•••	•••		•••				Fons 40 50 20			P	rice £3 3 3	per 14 11 11	to 0	n.	Purch Vivian & ditto ditto	asers.	
4	••	•••	***	•••	•••	•••	•••	•••	•••	•••	•••	20	***	•••	•	4	0	0	• • • • • • • • • • • • • • • • • • • •	ditto		

BLACK TIN. Sold on the 27th March.

Nines.
Tens c. q. lbs. Price per ton. Amount. Purchasers
(outh Carn Brea. 5 8 2 6 £64 10 0 £ 350 1 8—Carvedras.

Sold on the 2d April.

2t. Wh. Busy.... 16 3 1 19 1024 13 10—Bissoc Co. Gt. Wh. Busy.... 16 3 1 19

COPPER ORES. Sampled March 13, and sold at Tab 's Hotel, Redruth, March 28.

9	Mines.	Tons.	Price		Mines. Tong.	Pri	ice.	
1		s 95	£3 1	6	St. Day United 49			0
۱,	ditto	65		6	ditto 44	-6	3	0
. 1	ditto	58	1 0	6	ditto 43	2	0	0
-	ditto	44		6	ditto 25	1	3	6
3	ditto	43	4 12	0	North Treakerby 76	6	15	0
r	ditto	35		6	ditto 73	6	18	0
•	ditto	28	2 10	0	ditto 70	4	19	6
ш	ditto	27	4 13	6	ditto 51	6	7	0
C	ditto	17	3 19	0	North Downs 76	7	12	0
	Great Whea	l Busy 70	2 13	0	ditto 72	10	7	6
\$	ditto	68	2 7	0	ditto 60	7	18	6
e	ditto	67	. 2 8	6	South Crinnis 73	7	5	6
В	ditto	62	. 3 2	. 6	ditto 70	5	12	6
-	ditto	54	. 3 4	6	ditto 30	16	6	
1	ditto	58	. 3 5	6	Craddock Moor 83	- 8	11	0
8	ditto	30	. 6 13	0	ditto 47	9	6	6
	South Carac	ion 89		6	ditto 39	9	12	6
r	ditto	87	. 5 17	6	E. Crinnis & South Par 90	- 5	0	0
i.	ditto	61	. 9 10		ditto 37		0	6
	ditto	48	. 7 13	6	Mary Great Consols 74	- 5	11	6
:	ditto		. 19 18		Gonamena 51		2	6
d	ditto		. 18 11	. 0	ditto 22		17	6
8	ditto	30	. 6 16		Perran Mines 39		16	0
g	Fowey Con	sols 85			ditto 31		14	0
0.	ditto	84			Wheal Ellen 30		2	0
-	ditto	83			ditto 19		17	0
g	ditto	82			ditto 9	1	0	6
ā	Tywarnhail	e 80			Pedn-an-drea 22		14	6
is	ditto	61			ditto 15			6
e	ditto	59			Nancekuke 26		6	0
8,	ditto	45			Wheal Messer 25		9	0
rt	ditto	51			South Ellen 19		5	6
e	ditto	5						0
0	St. Day Un	ited 73			Wheal Kitty 7	. 8	12	6
-	ditto	57	. 3 19	6				
18			TOTA	LP	RODUCE.			
18	United Min	es 410£	1280 9	0	Mary Great Consols 74 £	412	11	0
			1194 18	0	Gonamena 73	419		6
ıt			4105 15	6	Perran Mines 70	324	12	0
)r			2240 19		Wheal Eilen 58	246		6
n			1078 18		Pedn-an-drea 37	263		6
d.	St. Day Un		1102 18		Nancekuke 26		13	0
9	North Tree		1663 16	0	Wheal Messer 25	136		0
	North Dow		1876 8		South Ellen 19	24		6
r,	South Crim		1411 11				16	0
1.;	Creddock N	foor 169	1503 16	0		60		6
15,	East Crinni	s, &c 127	605 8				-	-

LAST

	Amount of Money£20,060 17	1			
T	SALE.—Average Standard£131 17 0.—Average Prestandard of corresponding sale last month, £129 12 0.—Prestandard of corresponding sale last month.	eoube	63	***	
	Standard of corresponding sale last month, 2129 12 0Fre	rauce,	97	8.	
	COMPANIES BY WHOM THE ORES WERE PURCH.	ASED			
	Tons.				
	Mines Royal Company 2061/2 4	803	12	6	
	Vivian and Sons 524	3823	11	0	
	Freeman and Co 216	1045	3	9	
	Grenfell and Sons 414% 414%	2619	9	10	
		515			
	Sims, Willyams, and Co 4421/2	8171			
	Williams, Foster, and Co 510	3066	5	4	
	Mason and Elkington 385	2216			
	F. Bankart 3141/4	1422	8	9	
	Copper Miners' Company 16817	1023	0	0	
	Sweetland and Co 20112	353	5	3	
	Total	0,060	17	6	

Copper cres for sales on Thursday next at Tabb's Hotel, Redruth.—Mines and parcels.—Carn Brea, 581—West Basset 488—Pendeen Consols 334—Great Wheal Alfred 318—Par Consols 316—Great South Tolgus 237—Rosewarne United 174—United Mines 150—Botallack 130—Trelloweth 124—Wheal Baller 86—East Carn Brea 46—West Fowey Consols 45—Wheal Anna 40—Wheal Unity Consols 39—New Wheal Hender 38—Camborne Consols 10—Great Wheal Fortune 8—South Dolcoath 6—Wheal Tehidy 4.—Total, 3297 tons.

Sampled March 20, and sold at the Basset Arms Hotel, Pool, April 4.

	apros sistem 20	,		-		110101, 1 001	, ampire	-		_
Mines.	Tons		rice.	1	Mines.		ons.	Pr	ice.	
Wheal Cliffe	rd101	£	8 11	6	Wh. Seton	[Pendarves		£0	3	
ditto	****** 86		5 9	6	ditto		37	. 4		16
ditto	78		3 10	6	ditto	********	10	. 13		6
ditto	76		8 13	0	Condurrow		98	70.0	1	- 6
ditto	67	****	4 7	6	ditto		92	. 2	9	0
ditto	60		4 8	6	ditto	********		. 7	12	0
ditto	52		4 16	6	ditto			. 8	4	6
ditto	47		8 1	6	ditto		20	. 2	16	- 6
ditto	41		7 0	0	ditto	********	18	. 0	4	6
ditto			4 14	6	Wheal Bass	et		. 6	4	-
			5 11	0	ditto	*********			5	6
ditto	25		4 8	0	ditto	*********			19	0
West Seton	79		6 16	6	ditto	*********			8	6
ditto	78		9 1	6	ditto	********			16	6
ditto	72		9 4	6	ditto	*********				i
ditto	68		7 5	6		es			6	è
ditto	65		2 14	0	ditto	*********			10	è
ditto	53		6 16	6	ditto				14	6
ditto	50	****	2 17	0	ditto	**********			12	Č
ditto	47		2 17	0	ditto	**********			4	Č
ditto	44		8 0	0		15			7	è
ditto	43		5 18	0	ditto				3	-
ditto	86		6 12	0	ditto	**********			12	6
	100		5 3	6	East Basset				12	6
ditto	50		3 15	6	ditto				12	0
			4 3	6		********				
ditto	49		4 5	6	ditto	*********			15	6
ditto	47		4 1	0					4	- 6
ditto	46			0	ditto	*********				0
ditto	23			6	ditto	********			15	6
ditto	20		5 5	6	ditto	*********			.2	6
	120			6		*********			11	0
ditto	61				ditto	*******			19	
ditto	40		3 1	6	ditto				5	(
ditto	36		4 6							
ditto	35		4 10	0	ditto	********			3	-
ditto	25		9 15	0		y				
ditto	14		1 10	0	ditto	********				(
Wh. Seton	[Pendarves 86		1 8	6	ditto	**********			3	-
ditto	64		5 2	0	Camborne V	ean	41	. 4	6	-
ditto	60	****	4 2	6	1					
		7	ATOT	LI	PRODUCE.					
Wheal Cliff	ord)				South Franc	es 180	£	1084	19	0
Engine 0		£420	7	6	South Tolgu			753		i
	635	406	2 18	0	East Basset			1685		(
	335		2 15	0	Trevoole			500	1	i
	331		3 16	0		116		573	6	(
	Pendary.]307		8 17	6		79		314	6	1
" minesoul.					0					- 3

COMPANIES BY WHOM THE ORES WERE PURCHASED. Total £19,797 16 €

Copper ores for sale on Thursday week, at the Royal Hotel, Truro.—Mines and parcels,—Devon Great Consols 1837—Wheal Crelake 401—Pheanix 346—West Caradon 326—Marke Valley 300—Bedford United 201—Wheal Edward 198—Calstock Consols 160—Wheal Emma 185—Devon and Cornwall 180—North Robert 143—East Caradon 140—Wheal Friendship 125—Torpoint Regulus 110—Kelly Bray 102—South Lady Bertha 75—Sortridge Consols 39—Molland 60—Bamptyide 51—Trehill 28—Cuddra 25—Brookwood 24.—Total, 4725 tons.

				RST SAI													
Year		Tons.	Prod.	Amou	mt.			Stan	dar	d.		Ore o	opp	er.	. (Cake	cop.
1851	********	4628	 674	 £20,352	17	0		£104	14	0		£64	8	0		£84	0

1854		4190	814	 91,687	12	6		142	17	0		93	6	0		126	.0
1885	*********	3857	 656	 26,011	13	6		144	13	0		106	14	0		126	0 %

1857	********	3598	 634	 23,292	1	0		147	10	0		103	10	0		185	0
1858	*********	3604	 642	 22,703	9	0		133	12	0		93	0	0		117	0
1859		4164	 7	 81,267	19	6		139	10	0		100	3	0		112	10
1860	********	3542	 614	 20,028	6	6		129	0	0		86	16	Đ		107	70
APRIL PROPERTY.	to commen for	48a		 - 48a mak	4	all mi	32	-	48	-	-	w mai	A 10	4.5	-	THE LOCAL	

PARTICULARS OF COPPER ORES SOLD IN CORNWALL IN THE QUARTER ENDING MARCH 31, 1861.

Copper ores, 41,462 tons (21 cwts.) — Firse copper, 2709 tons 19 cwts.—Amount of money, 240,3111. 13s. 6d.—Average produce, 6½ 1-16.—Average standard, 1201. 14s.—Average price (per 21 cwts.), 51.16s.

GOVERNMENT INSPECTION OF COAL MINES, ACT FOR THE REGULATION AND INSPECTION OF MINES,

GLOSSARY OF ENGLISH AND FOREIGN MINING AND

SMELTING TERMS.

Second edition, revised and much enlarged.

andon: Mining Journal office, 26, Fleet-street, London, E.C.; and of all books
and newsmen.

THE PROGRESS OF MINING IN 1860, BEING THE SEVENTEENTH ANNUAL REVIEW.

BY J. Y. WATSON, F.G.S., Author of the Compendium of British Mining (published in 1843), Gleanings among Mines and Miners, &c.

The Sixteenth Annual Review of Minnes of Progress appeared in the Mining Journal of December 31, 1859, and January 7, 1869.

A FEW COPIES of the REVIEW OF 1855, containing Statistics of the Metal Trade, the Dividends and Percentage Paid by British and Foreign Mining Companies, and the State and Prospects of upwards of 200 Mines. Also a FEW COPIES of the REVIEW OF 1852, 1853, and 1854, MAY BE HAD on application at Messrs. Watson and CUELL's Mining offices, 1, 8E. Michael's-alley, Cornhill, London.

Also, STATISTICS OF THE MINING INTEREST. By W. H. CUELL.

WATSON AND CUELL'S MINING CIRCULAR published every Thursday morning, price 6d, or 21 is, per annum, contains Special Reports of Mines, and the Latest intelligence from the Mining Districts, from an exclusive resident agent; also, Special Recommendations and Advice upon all subjects connected with Mining, and interesting to investors and speculators. A Record of Daily Fransactions in the Share Market, Motal Sales, and General Share Lists, &c. Edited by J. W. Warson F.G.S., and published by Warson and Curall, i.S. Michael's alley (Cornhill N.B. Messrs, Warson and Cural have made a selection of a few dividend and progressive mines, which they have reason to believe will pay good interest, with a probability, also, of a rise in value, the names and particulars of which will be furnished on application.

NVESTMENTS IN BRITISH MINES.—
Mr. MURCHISON'S REVIEW OF BRITISH MINING for the QUARTER
ND THE YEAR ENDING 31st DEC., 1860, with Particulars of the Principal Dideed and Progressive Mines, Table of the Dividends Paid in the last Five Years, &c.,

vidend and Progressive Mines, Table of the Livinguista.

is NOW READY.

Price One Shilling. At 117, Bishopsgate-street Within, London, E.C.
Reliable information and advice will at any time be given on application.

Also, COPIES of "BRITISH MINES CONSIDERED AS AN INVESTMENT." B.

J. H. MURCHESON, E.S., F.G.S., F.S.S. Pp. 356, boards, price 3s. 6d., by post is. Se
advertisement in another column.

SPARGO'S PRICE CURRENT, published every Wednesday

tains the highest and lowest quotation of every transaction officially recorded ock Exchange, and the close market price of mining stock. Price, single copy, ually, 18s., post free, payable in advance. BYAROG, sharebroker, Gresham House, Old Broa'-street, London, E.C., con-EPPECT PURCHASES and SALES in EVERY DESCRIPTION of STOCK and SHARES. Commission, 21/2 per cent.

Plates, 8vo., cloth, Price 10s. 6d. by post 11s.,

THE MINERS' MANUAL OF ARITHMETIC
AND SURVEYING.
By WILLIAM RUKARD,
Teacher of Practical Mining in the late Mining School of Cornwall, and Principal of
the Engineering Academy, 4, Myrtle-street South, Liverpool.
Truro: Heard and Son.—London: Longman and Co., the office of the Mining Journal,
26, Flost-street: of the author, and of all booksellers.

FEW REMARKS ON AUDITING OF CORNISH MINING

REMARKS ON AUDITING OF CORNISH MINISTER ACCOUNTS, ACCOUNTS, ACCOUNTS, ACCOUNTS, To render any audit efficient and entitled to public condidence, it must be freed, as ft as possible, from all partial influences, or even the suspicion of any indirect motive; should be rendered independent of these persons whose accounts are submitted to its in spection.—Lordo Montragole.

I have written much, and contended for a long time past, that our public companion of all kinds ought to be subject to public audit.—W. F. SPACKMAN.

Camborne: H. V. Newton.—London: Mining Journal office, 26, Fleet-street, E.C.

In cloth, price 6d.,

In cloth, price 6d.,

SLATE QUARRIES IN WALES CONSIDERED

AS AN INVESTMENT: WITH A SHORT DESCRIPTION OF THE PRESENT STATE OF THE SLATE TRADE,

By THOMAS COOPER SMITH.

The wealth which has from time to time been extracted from the Mountains of Wales
has elevated many men from the lowest ranks of life to affluence and independence,
created squires and baronets, and added grandeur to the equipages of noblemen.—PARRY.

We are glad to find our old friend coming so prominently forward as an advocate for investment in slate quarries, and we can have no hesitation in recommending his small
pamphlet as well worthy of attention. The author, who has been long ontaged in slate
quarries, has in a few pages brought before the public the position of the slate trade, as
one that recommends itself in the most tempting form to capitalists for investment. The
leading features of this small pamphlet go to show that the demand for slate exceeds at
the present time any former period; that the supply is utterly inefficient for the wants
of the trade, that the prices are high beyond all precedent; that the profits realised by
most of the large quarry proprietors are upwards of 50 per cent.; and that extensive opportunities exist for opening other large quarries, and increasing the supply; but the
work should be read to be appreciated. We can in a great measure confirm the statements made by Mr. Smith, from numerous correspondents who have from time to time
induced us to draw attention to the wants of the trade, and the rare opportunity that extest for public companies to embark in this profitable branch of our commerce.—Mining
Journal.

London: Printed and published by Ward, Brothers, 56, Bartholomew-close, E.C., and to be had at the author's, 5, Warnford-court, Throgmorton-street.

NEW EDITION OF DOWNING'S HYDRAULICS.

ELEMENTS OF PRACTICAL HYDRAULICS,

By SAMUEL DOWNING, LL.D., Professor of Civil Engineering in the
University of Dublin. Second edition, revised and enlarged.

Mr. Downing's work will be a great boon
to the student of hydraulic engineering,
since the subjects are much simplified, and
London: Longman, Green, Longman, and Roberts.

NEW WORK ON GASES, THE POWER OF EXPLOSIONS, SEPARATE WINDINGS AND WORKING OF MINES.—Address, JOSEPH HEATON, Spring Close-street, Bank, Leeds; WM. HOFTON, St. Helens, Laucashirs.

May be had at the Mining Journal office, 28, Fleet-street, London, E.C.

May be had at the Mining Journal office, 26, Fleet-street, London, E.C.

Fublished monthly, under the authority of the Queen's Letters Patent (subscription £2 2s. per annum, payable in advance),

ROWNE'S EXPORT LIST.

An Account of all Coals, Coke, Patent Fuel, and Iron Exported from all the Principal Ports in England, Scotland, and Wales, viz.:—Newcastle, Shields, Blyth, Amble, Sunderland, Seeham, Hartlepool, Middlesbro', Scotkton, Hull, Goole, Maryport, Whitehaven, Liverpool, Glasgow, Greenock, Port Glasgow, Grangemouth, Irvine, Troon, Ardreasan, Borrowstaness, Inverkething, St. David's, Charlestown, Bowling Bay, Alloa Newport, Swansea, Cardiff, Lianelly, and Pembrey, as well as of the number of vessels and of tons of coals and coke carried coastwise from these ports, together with an account of all goods exported from Newcastle, Shields, Sunderland, Esrtlepcol, Middlesbro', and Stockton, and of the number of vessels belonging to the different countries engaged in the export trade. the export trade.

Printed by Andrew Reid (for Castoma), 40, Pligrim-street, Newcastle-on-Tyne who will receive subscribers' names.

NVESTMENTS IN BRITISH MINES.—
Mr. MURCHISON publishes a QUARTERLY REVIEW OF BRITISH MINING, ing at the same time the POSITION and PROSPECTS of the MINES at the end of the Quarter, the DIVIDENDS PAID, dc.; price One Shilling. RELIABLE INFOR-MATION and ADVICE will at any time be given by Mr. MURCHISON, either personally or by letter, at his Offices, No. 117, BISHOPSGATE-STREET WITHIN, LONDON

OPINIONS OF THE PRESS ON Mr. MURCHISON'S WORK ON BRITISH MINING,

FURLISHED IN 1856.

Mr. Murchison's new work on British Mines is attracting a great deal of attention,
and is considered a very useful publication, and calculated to considerably improve the
estition of home mine investments.—Mining Journal.

The book will be found extremely valuable.—Observer.

A valuable guide to investors.—Herapaih.

Mr. Murchison takes sound views upon the important subject of his book, and has
isseed, for a small sum, within the reach of all persons contemplating making investments in mining shares that information which should prevent rash speniation and unreductive outlay of capital in mines.—Morsing Heraid.

A valuable little book.—Globe.

Of special interess to persons having capital employed, or who may be desirous of in-

A valuable little book.—Globe.

A valuable little book.—Globe.

Of special interest to persons having capital employed, or who may be desirous of investing in mines.—Morning Chronicle.

As a guide for the investment of capital in mining operations is inestimable. One of the most valuable mining publications which has come under our notice, and contains more information than any other on the subject of which it treats.—Derby Telegraph.

Parties requiring information on mining investments will find no better and safer instructor than Mr. Murchison.—Leed Times.

To those who wish to invest capital in British Mines, this work is of the first importance.—Welshman.

This is really a practical work for the capitalist.—Stockport Advertiser.

This work enables the capitalist to invest on sound principles; in truth, it is an excellent guide.—Pignocial Journal.

All who have invested, or intend to invest, in mines, would do well to consult this very useful work.—Pignocial Express.

Persons desirous to invest their capital in mining speculations, will find this work a very useful guide.—Werwick Advertiser.

We believe a more useful publication, or one more to be depended on, cannot be found.

—Pignouth Heraids.

Og great value to capitalists.—Sunderland Times.

Hotices to Correspondents.

• Much inconvenience having arisen, in consequence of several of the Numbers durin the past year being out of print, we recommend that the Journal should be regular; filed on receipt: it then forms an accumulating useful work of reference.

course Tools.—Will you or one of your correspondents be kind enough to enlighten ms as to the tools used in "core" boring—i.e., a boring (for wells, &c.), when a core of the rock is left? for example, take a boring of 2 feet diameter, what would be the size of the core, and how would that core be detached and raised to the surface? What form of cutting edge has the bore for core-boring? Full and minute particulars of the tools used would confer a favour on—A Subschurer: April 3.

LAGKBAND IRONSTONES IN EDINBURGH AND EAST LOTHLAN.—I observe in the Journal or last week, under this heading, a mistake as to the proprietor of the Cornish engine referred to; it ought to be "Sir George Grant Sattie, Bart., now working at Dolphingston Pit, Preston Grange Colliery."—JOHN WHITELAW, Manager: Preston Grange Colliery, Prestonpans, April 2.

Cottery, Prestonpans, April 2.

ALTURAL OXIDE or SILVER.—I read the letter of "Chemicus" in last week's Journal
with great interest, and, bearing in mind the scarcity of sliver of late years, and the
large demand there is for it, sepecially in the East Indies and China, your correspondent
would confer a benefit on the community if he would describe the process by which
ores which have hitherto yielded only 13 ozs. of sliver to the ton may be made to yield
118 ozs., and at an expense little more than nominal.—A Burlionis: April 4.

r. AUNYN MINKERAL COMPANY.—In reply to an enquiry by "T.," in last week. Journal this company is in course of being wound-up under the provisions of the Joint-Stot Companies Act, and an official liquidator appointed. What a result, after such a flaming prospectus and list of directors:—V. M.

DUTH DEVON IRON AND GENERAL MINING COMPANY.—Can any of your readers in the locality of the works give information as to what this company are really doing? Many of the holders, I know, would be greatly obliged by anyone living in the district giving the information desired.—One Interested.

TRECRIBERS IN AMERICA.—Our friends in America are informed that they can obtain the Missing Journal by ordering it from a bookseller in any of the principal towns of the United States. Mr. Tribber, of Paternoster-row, is the London agent, and sends parcels by every mail to the principal booksellers and nows agents there.

Now ready, price 6s., or 78 postage stamps, Mr. Thomas Tapping on the Colliery and Ore-Mine Inspection and Truck Acts. The work can be had from the *Mining Journal* office, 26, Fleet-street.

GOVERNMENT INSPECTION OF COAL MINES.—Now ready, price 6d., a Second Edition of the New Mine Inspection Act; to which is appended the Act for the Regulation and Inspection of Mines, which came into operation on Jan. 1.—To be had from the Mining Journal office, or through any bookseller in town or country.

Mining and Smelting Glossary.—Now ready, price 2s., a New Edition, enlarged, of The English and Foreign Mining Glossary; to which is added the Smelting Terms used in France, Spain, and Germany. Published at the Mining Journal office, 26, Fleet-street, and may be obtained through all booksellers and newsmen.

Annual Review of Mining.—Now ready, price 1s., the "Progress of Mining in 1860," by J. Y. Watson, F.G.S., being the 17th Annual Review. To be had at the *Mining Journal* office, 26, Fleet-street; or of Messrs. Watson and Cuell, St. Michael's-alley, Cornhill.

THE MINING JOURNAL

Railway and Commercial Gazette.

LONDON, APRIL 6, 1861.

The Board of Trade returns of the exports and imports of the United Kingdom for the two months ending Feb. 28 have been issued. They do not present any feature which was not fully expected. The decrease which they show as respects the exports was fully anticipated; indeed, the state of trade has been such since the commencement of the year, both as regards our trade has been such since the commencement of the year, both as regards our colonies and the continent of Europe, that no other result than a considerable falling off could be expected. For the two months of Jan. and Feb. of this year we find that the total declared value of the exports of articles the produce and manufacture of this country is 16,718,4191., whereas for the same period of 1860 the aggregate was 20,088,4371., consequently showing a decrease of no less than 3,370,0181., or equal nearly to 20,000,0001. on the whole year.

a decrease of no less than 3,370,018*l*., or equal nearly to 20,000,000*l*. on the whole year.

Of the difference between the two years the articles identified with the mining interests represent about one-fifth, which is the usual proportion in the returns generally, both as respects excess and deficiency. The total of decrease under this head is 600,274*l*., two articles alone giving an increase—coals and culm to the extent of 31,125*l*., and brass 572*l*. The principal falling off is shown in copper, which is 174,655*l*. less than 1860. Iron is 160,788*l*. under the amount of last year; tin, 127,826*l*.; hardwares and cultery, 88,399*l*.; steel, 49,681*l*.; machinery, 17,544*l*.; and lead, 13,078*l*. smaller than the returns for January and February, 1860.

The remarks as to the general appearance of our exports applies equally to the precious metals, which are never included in these statements. The exports again give an excess over imports; therefore, the balance is against

to the precious metals, which are never included in these statements. The exports again give an excess over imports; therefore, the balance is against us. We transmitted 4,986,486L, and received 3,184,329L, being a difference of 1,802,157L. Of the exports, 2,789,762L were in gold, and 2,196,724L in silver; and of the imports, 1,870,413L in gold, and 1,313,916L in silver. To the United States we forwarded 1,907,131L, and received from them only 4302L, which is quite contrary to custom, for under ordinary circumstances we are recipients of large amounts of the precious metal from the States, and send only a small sum; but the derangement of political and commercial matters in America has necessarily quite altered the from the States, and send only a small sum; but the derangement of political and commercial matters in America has necessarily quite altered the appearance of these returns in this particular. To India and China we sent 2,018,668*l*. entirely in silver, with the exception of 133,619*l*. France took 849,535*l*. chiefly in gold, and sent 433,954*l*., of which 289,751*l*. was gold, and 144,203*l*. silver. Australia gave us 1,360,154*l*., and Mexico 1,257,696*l*., without shipments from us.

Our Staffordshire Correspondent, in last week's Journal, defended Mr. Baker, the Government Inspector of Mines for South Staffordshire and East Worcestershire, from charges brought against him by a correspondent, whose letter appeared in the previous Journal. It appears clear that the attack rested upon no substantial grounds; that Mr. Baker did only what attack rested upon no substantial grounds; that Mr. Baker did only what was his duty in giving the evidence he gave in the case referred to, and that however the counsel for the accused, as might naturally be expected, endeavoured to direct the attention of the jury to a false issue, the fact was that the accident resulted, and resulted only, from the neglect of the accused, and whether the appliances in use at the colliery were or were not "rude," and insufficient, in point of fact they operated satisfactorily on that occasson, and formed no ground of excuse for the neglect of the engineman. We allude to this because whilst the Inspectors of Mines are necessarily open to criticism, and whilst great advantage will result from their conduct being exposed to scrutiny and question when necessary, unjuried to the proposed of the server and the proposition. just and unfounded attacks are alike unjustifiable and injurious. We happy to hear from the district in which Mr. Baken's duties lie that most active in the discharge of the duties of his own. active in the discharge of the duties of his office; that he is compelling n of many prentions against danger, and using his precantions against unages, and do away with all regulations and apparatus cal and do away with all regulations and apparatus cal and do away with all regulations and apparatus cal e to discourage culated to make colliery operations dangerous. We shall be hat that the result is a diminution in the accidents in that part of th and this result will be an effectual answer to the objections made to Mr BAKER's appointment. BAKER's appointment.

The proceedings at the meeting of the shareholders of the Wicklow Copper Mining Company, of which we give details in another column, furnish most encouraging evidence of the great success attending mining enterprise in that favoured county. It is true that the Wicklow Copper ny is of some years' standing, and there has been time to deve company is or some years standing, and there has been time to develop much of the resources of the property, but its success has been brillian beyond what might have been fairly anticipated at the commencement and yet we learn, from the report laid before the meeting, that portion were quite unexplored, especially in Ballymurtagh township, where, from operations recently commenced, there is good reason to believe discoverie of other deposits, or lodes of sulphur ore, will be quickly met with. The usual raisings of ore have likewise been kept up, it is shown, notwithstand ing the interruption of the ordinary works by the new operations. The nett profit for the half-year amounts to 15,104L, and a dividend of 2L 12s, 6d. per share was declared, after making the usual deductions for the indemnity fund against bad debts, and 1602L being added to the surplus fund. This dividend of 2L 12s, 6d. for the half-year is on shares of 5L each; conmtly, at the rate of more than 100 per cent. per annum to the original

holders. This surely is proof again that mining enterprise, when legiti-mately conducted, is a source of vast benefit to those who invest their mately conduct capital therein.

THE PROPOSED RENEWAL OF THE COAL TAX.

[FROM A CORRESPONDENT.]

It is really surprising that so monstrous an abuse as the City Coal Tax hould have remained among us so long; however, we rejoice to find that public attention is at last about to be directed to this crying iniquity, which is almost as impolitic and oppressive as a similar tax would be levied upon is almost as impolitic and oppressive as a similar tax would be levied upon corn imported from the same districts, for the consumption of the metropolis. It should be borne in mind that the coal duties of every description, levied in the old days by the Corporation of the City of London, were commuted in 1830 for a duty of 1s. 1d. per ton upon coal imported from all parts of the country (whether brought by sea or land, within the 20 miles radius of the General Post-office), and it can easily be conceived that the authorities will do their very utmost to cling to the coal tax as long as its revenues can produce such a satisfactory result as 288,873l. 7s. 10d. per annum, as it did, for instance, in the year 1859. According to a within impost is to cease in 1862, and the Government will strain every utwoe, and use all its influence with the Legislature, to prolong its existence. This abuse has lasted long enough, as generations upon generations of aldermen abuse has lasted long enough, as generations upon generations of aldermen have played "ducks and drakes" for upwards of two centuries with the funds originally obtained in the name of charity and the succour of the "orphan." They have beautified and improved London, as they tell us, with the money, and we know not what else they may have done with it, but it is quite time that the poor should be relieved, and that a monstrous wrong should be abolished.

wrong should be abolished.

Let it be remembered that the poor suffer exclusively from this cruel impost—the rich purchase their coal by the ton, and they, of course, neither feel nor care about it; but how different it is with the poor artizan, perhaps out of work, and possibly in the midst of such a winter as we have just experienced. He is compelled to pay 1d. upon every 1 cwt., or \(\frac{1}{4}d. \) upon every \(\frac{1}{4} \) cwt. of coals he consumes, and at such times and in such seasons the smallest coin represents life—that is, bread. Add to this, that the tax can be levied within 20 miles of the General Post Office in every direction, the London district being \(\frac{1}{4}d \) omiles in length and as many in breadth. In the matter of tax paying, at least, it will be seen that rich and poor are alike constituted citizens of London within this vast area: their other privileges of citizenship we shall say nothing about, except that it has been wrong should be abolished. vileges of citizenship we shall say nothing about, except that it has been their especial privilege (the fortune of their ancestors and of themselves) to suffer for upwards of two centuries and a quarter from one of the most heartless and wanton extortions ever heard of in the annals of taxation. The coal consumers of London must at once unite for immediate action, and they will not only consult their own interests, but also those of the poor suffering classes, in resisting to the very last any attempted prolonga-tion of this monstrous abuse. In the meanwhile we are glad to hear that an important movement is in course of silent but of sure organisation, and we wish it every possible success in its efforts to secure the abolition of the iniquitous and obnoxious 1s. 1d. tax. The first of a series of public meetwe wish it every possible success in its efforts to secure the abolition of the iniquitous and obnoxious 1s. 1d. tax. The first of a series of public meetings is to be held this week at the London Tavern, for the purpose of more completely laying this important question before the public. We consider that the Corporation of London has in reality abandoned 9-13ths of the tax in agreeing, at the suggestion of the Government, to hand over this large portion of it to the Metropolitan Board of Works. This is the worst part of the case. The Board of Works has shown itself utterly incompetent, and something worse; yet, in the face of this, it is to be favoured with the handling of upwards of 2,000,000% of money. We are most anxious for the embankment of the Thames, the stalking-horse for this proposed monstrous renewal; but not at such a price, and to be executed in the manner it is likely to be under the control of Messrs. Thwaites and Co.

NEW THEORY ON THE COMPOSITION OF STEEL.

It is without doubt the late researches of Capt. Caron, relative to the production of steel by the metallic cyanides, that led that eminent chemist, M. Fremy, to turn his attention in the same direction, and result in the important experiments communicated to the French Academy of Sciences in its sitting on March 11, which lecture produced a profound impression on this body of learned men.

The theory is this:—Steel is not, as generally admitted, a carburet of iron, but a nitro-carbide, in other terms that iron becomes transformed into

iron, but a nitro-carbide, in other terms that iron becomes transformed into steel by its combining successively with a certain quantity of carbon and nitrogen. According to the author, there does not exist one single experiment proving practically that steel is a combination of carbon and iron. There is a very celebrated experiment, which consists of converting iron into steel by means of the diamond—that is to say, pure earbon—but this does not appear a conclusive fact to M. Fremy. He states that when the experiments for determining the action of carbon upon iron were made, other bodies than those on which it was intended to try the mutual action were present, and even the experiment with the diamond does not appear to him free from this objection, and he announces his intention of reproducing this at an early date, in order to remove all doubts. In any case, without speaking of the impurities of the melting-pots, the influence of the gases of the furnace penetrating the apparatus, the action of the nitrogen of the air, or the presence of different substances contained in the coal itself, has never been thoroughly understood. M. Fremy instances a fact, he some time since made known, that steel dissolved by acids leaves a residuum entirely different from pure carbon, but which, by its properties and composition, approaches very nearly certain cyanide productions. Thus far, both synthetic and analytic experience are far from proving that steel contains only iron and carbon.

M. Fremy becan, therefore, to study successively the chemical action of

and carbon.

M. Fremy began, therefore, to study successively the chemical action to carbon and nitrogen upon iron: with this object he submitted the metal to a treatment of nitrogen and carbon. He used ammonia to obtain nitrogen, and by passing a current of ammoniacal gas upon iron he produced a nitrate of iron: that some chemists, however, particularly M. Desprez, had already obtained, but which M. Fremy has more deeply investigated. The nitrogen, in combining with the iron, formed a nitrate of a grey colour, brittle, and containing as much as 40 per cent. of nitrogen. For carbon M. Fremy next made choice of ordinary coal-gas: he found that when a piece of iron at a red heat was acted upon by a stream of coal-gas (the ordinary gas used for lighting the streets), a very regular carburation was obtained, and the metal converted into grey fron, very malleable, and to be compared in every respect to the finest brands of charcoal iron we be find, therefore, in employing ammonia and the ordinary coal-gas, two forcesses easy to regulate, and which may be studied singly or simultaneously. Of the action of carbon and nitrogen upon iron M. Fremy states that when cesses easy to regulate, and which may be studied singly or simultaneously. Of the action of carbon and nitrogen upon iron M. Fremy states that when iron is submitted to the action of ordinary gas, pig-iron is obtained; but when this gas is made to act on iron previously submitted to the action of nitrogen, it takes the appearance and character of steel; and a very remarkable fact here presents itself—it is, that the properties of the steel dereat measure on the quantity of nitrogen given to the iron. If using has not been continued sufficiently long, the gas, in its action pend in a great me duces a substance which is in som en steel and iron; if, on the contrary, the metal has been suitably nitrogenised the action of the gas produces a steel of a magnificent grain. When, however, instead of operating separately with nitrogen and carbon a mixture of the two is made to act on the metal at a red heat, conversion into

ture of the two is made to act on the metal at a red heat, conversion into steel is immediate, according to the relative proportions of the two gases. Steel, therefore, has been produced by the successive action of two gases upon iron. This new theory must throw great light on the manufacture of steel, and become of great practical utility. It will be curious to see, in a short time hence, charcoal superseded by products distilled from coal for converting iron into steel. This theory of M. Fremy has been confirmed in a striking manner by the demonstration of the existence of nitrogen in steel. In submitting to the action of a current of hydrogen gas artificial steels, prepared by himself after his new theory, M. Fremy succeeded in obtaining considerable quantities of nitrogen. After having re-obtained the nitrogen from the steels made by his new process, it became interesting to submit to the same proofs steels known in commerce for the purpose of discovering nitrogen in their composition. With this end in view, the author covering nitrogen in their composition. With this end in view, the author operated on three different, but much esteemed, varieties—the French steel of Jackson, the English of Huntsman, and the German of Krupp: steel of Jackson, the English of Huntsman, and the German of Krupp: these having been reduced to powder, and freed from all foreign matters, were submitted at a red heat to the action of dry hydrogen gas. In these trials the powder disengaged, during the whole time of the experiment, very notable quantities of ammonia. The last experiment leaves no doubt that nitrogen forms a constituent part of steel. Steel, concludes M. Fremy, is not a simple carburet of iron, but a nitro-carbide. It seems to me, on, ere om 20 hat ong od.

the

us, it,

uel

her aps ust oon ons tax

eet-iore this

red

nost this

ited

the ist,

the ices sion t of

troent iero iteel

ap-ents dies

king fur-the been

dif-

iron

gen, ni-had

ited. lour, rbon

. If diate itro-

into ases. gases

cture ee, in al for

rmed en in ificial ed in d the

uthor rench rupp: thes ment, doubt adds the author, that these researches ought to exert a considerable influence on the metallurgical operations that bear on the manufacture of steel. Thus, in the cementation of iron we ought to endeavour to unite all the conditions which not only carbonise, but bitrogenise, the metal. It is more than probable that the different marks of steel depend on the length of time of cementation, and also on the relative proportion of the two elements which combine with iron. In the preparation of puddled steel it will be equally important to determine the varieties of pig-iron which contain the full proportion of nitrogen necessary in the constitution of steel, or those insufficiently nitrogenised, which should receive additional nitrogen at the time of conversion. I speak now of steel, whose base is carbon and nitrogen; but this is not the only mixture in connection with the composition of iron, whose properties it is the interest of science to investigate. It is quite probable that there are certain bodies having some analogy either to carbon or nitrogen, which may produce steel. Do we not already know that the crystallised pig-iron, which is harder than ordinary iron, and somewhat resembles steel, is principally obtained by the reduction of phosphoric minerals.

[For the guidance of those interested in M. Framy's discovery, we may refer them to the paper of Mr. Christopher Binks, as published in the Mining Journal, and to the inventious made public several years since by that gentleman.—Ep. M. J.]

THE OIL SPRINGS OF AMERICA.

Appended to the report of Mr. T. W. Kennard, C.E., upon the prospect of the Atlantic and Great Western Railway (which has just been issued to the shareholders, and is of a most encouraging character), are some very interesting particulars concerning the oil springs of Pennsylvania. Mr. J. J. Shryock, one of the directors of the railway in Pennsylvania, writes that he has got all the information he could without a visit to each well; he has endeavoured to get it from reliable parties, and he thinks it can be depended on. In the Mecca oil regions, Ohio, he has ascertained that there are now 1200 wells pumping, and in a state of progress. The average daily clearing is 300 barrels, worth 20 cents per gallon, without barrels. This oil is not so good for burning as the Titusville oil, but is a heavier oil, and is used successfully for lubricating by simply filtering it. The Oil Creek oil is principally marketed at Titusville, at from 22 to 25 cents, according to quality. There is quite a difference in the wells; some shallow wells having produced a much heavier oil than the deeper ones. In winter the oil does not separate so freely, but the obstacle is removed by the use of steam. In the month of March, one firm, the heaviest purchaser, bought 5000 barrels, and in three months paid \$17,500 for carriage. There are no pumping wells above Utica, on French Creek, some six miles above Franklin, the borings not yet being of sufficient depth. All wells that have got down 600 feet are pumping from 10 to 40 barrels in 24 hours. to the shareholders, and is of a most encouraging character), are some very

depth. All wells that have got down 600 feet are pumping from 10 to 40 barrels in 24 hours.

In the Clapp Place district, fifteen companies are at work, and the indications for oil are good. The Complanters' Oil Company pumped 800 barrels from their well in about three months; the veins of oil then appeared to become choked, and they are at present drilling deeper. In the M'Clintockville district eighteen companies are at work, large quantities of oil being produced. In the Rouseville district nineteen companies are getting good quantities of oil, and the appearances in other localities are equally good. In our next we shall give some interesting particulars concerning the history of Coal Oils.

THE UNITED STATES COAL TRADE.

From an elaborate statement, published in the United States Railroad and Mining Register, we abstract the following particulars relative to the Coal Trade of the Union. The coal is lavishly diffused among the States from Pennsylvania to Arkansas, and from Ohio to Iowa and the territories. The nearest estimate that can be formed shows that the aggregate production for 1860 was nearly 15,000,000 of English tons: thus—

The 8,500,000 tons of anthracite coal mined in Eastern Pennsylvania—more than half the whole quantity of coal mined throughout the Union—are consumed in the eastern counties of the State, in the cities of Philadelphia and New York, and in the seaboard cities and towns between Maryland and Maine. And if we take the aggregated population in the anthracite markets, and compare it with the remaining portions of the country, there being 31,000,000 of inhabitants in the Union, we may conceive what the consumption of coal will amount to when it shall supersede wood as the preferred fuel in the southern and western States, as it has already become the popular, because the best, fuel along the sea coast. The coal trade of the United States with foreign nations, like the home coal trade between the States, exhibits an increase which gives ussurance of large results in future years. The coals exported are almost exclusively anthracite, the product of the mines of Pennsylvania. It is only forty years since the tabulations of the anthracite coal trade commenced with 365 tons for the year 1820, and now, for the year 1860, the tabulations of anthracite forwarded to market show an aggregate exceeding 8,000,000 tons. With regard to the yield of the anthracite coal fields of Pennsylvania, it appears that the—
Southern Coal District, comprising the Schuylkill, Pine Grove, and Lykens

that the—
Southern Coal District, comprising the Schuylkill, Pine Grove, and Lykens
Valley Regions, contains.

75,950 acres
Middle Coal District, comprising the Lehigh, Treverton, and Shamokin
Regions, contains.

85,525
Northern Coal District, comprising the Wyoming and Lackawanna Regions 76,906
Regulation 238,280 acres. As to the coal mined in Ohio, Governor Denison
in his annual message, dated Jan. 7, puts down the yield at 48,000,000
bushels. Allowing 25 bushels to the nett ton of 2000 lbs., the quantity
estimated is equal to 1,920,000 tons. This is below the quantity estimated
for previous years by other authorities, partly upon actual returns and partly
upon conjectures, and may be relied on for as near an approximation to the
real quantity mined as it is possible to obtain.

ALUMINIUM AND ITS ALLOYS.—In the Exhibition of Manufactures now open at the Society of Arts are some very valuable specimens of aluminium and aluminium bronze, manufactured by Mesers. Bell Brothers, of Newcastle on Type, of which the exhibitors give the subjoined description. The specific gravity of aluminium is 2°C, or about one-fourth that of siters, and thus, weight for weight, the bulk of aluminium is four times the bulk of aluminium that of siters, and thus, weight for weight, the bulk of aluminium is four times the bulk of aluminium that of siters, and thus, weight for weight, the bulk of aluminium is four times the bulk of aluminium that of siters, and thus, weight for weight, the bulk of aluminium that of siters, and thus, weight for weight, the bulk of aluminium that of siters, and thus, weight for weight, the bulk of aluminium that the site of the role contained the siters of the site of the role of the site of the role of the rol

Good French iron, in Deville's experiments, broke at a strain of 60 kilos, the square millimetre, and steel wire at a strain of from 90 to 100 kilos. It thus appears that steel, and that of a fine quality, only can stand a comparison with aluminium bronze in respect of tenacity. As regards hardness, a comparison was made between a steel and a bronze groove for the guide blocks of a locomotive engine, and, after six months' use, no trace of wear was perceptible; the bronze grave a result equality good with the steel. It was also tried for the journals of the front wheel of a locomotive, with excellent results, its great malicability, combined with hardness and tenacity, rendering it well adapted for this purpose, where ordinarily a very brittle alloy is used. The bronze containing 10 per cent. of aluminium can be rolled at all temperatures, from cold up to a bright cherry red. It rolls well at a bright red heat, breaks less and elongates more than pure red copper. It is difficult to roll cold, and after a number of passes through the rolls it elongates more than pure ready to the rolls. It is desirable to roll it at an high a temperature as possible, short of fusion. Re-heating and plunging in water to cool; renders the alloy more tractable than simply re-heating without dipping. If re-heated to a bright red heat, and not dippe 1 in water until it has been left to cool in the air down to a low red heat, it is sufficiently malicable and ductile, when cold, to bear without breaking the ordinary manipulations in working it, except some descriptions of stamping.

ON PLATINUM.

ON PLATINUM.

At the Royal Institution of Great Britain, Prof. Faraday founded a discourse on the recent investigations of MM. Ste. Claire-Deville and H. Debray, regarding the characters and conditions of the platiniferous metals, and the new process of working the ore which they have established on their results. Wherever platinum occurs it is usually, if not always, accompanied by five other remarkable metals—ruthenium, osmium, iridium, rhodium, and palladium; and in addition by other substances, as iron, copper, gold, silver, and sand. Being washed, the heavy particles are left as the general ore of platinum, this metal constituting by far the largest part of the substances.

The six metals, when obtained apart and purified, form two groups of three each, each group having an equivalent number very different from that of the other group, as appears in this table:—

Equivalent No., 95-5.

 Equivalent No., 95-5.
 Equivalent No., 58.

 1. Osmium
 Sp. grav. 21-40

 3. Iridium
 21-15

 5. Piatinum
 21-15

 6. Palladium
 11-8

 7. Piatinum
 11-8

 8. Ruthenium
 12-1

 9. Palladium
 11-8

OBTAINING MOTIVE-POWER—THE HYDROSTATIC PARADOX.—An invention based upon the pressure which liquids exercise according to their density, and the dispositions which are given to them, has been provisionally specified for Mr. Louis Leygoine, of Limoges. The effects which a small quantity of liquid will produce when contained in a vertical tube, the lower end of which rests in a basin or reservoir scarcely more than I inch in height, but of a surface 10,000 times greater than that of the small tube, are very extraordinary. Supposing, for example, that the small tube be I in. square, and that the basin has 10,000 square inches of surface at its base; if the basin be filled with mercury through the top of the tube, and the operation continued until the mercury is 3 ft. high within the tube (calculating from the bottom of the basin), the bottom of the basin will support a pressure of not less than 28 tons weight, although to arrive at this result but 20 to 25 quarts of mercury have been expended. To employ this natural agent as a motive-power is the object of this invention, and it has been found necessary to construct an apparatus, which, arranged to engender enormous pressure, must also possess within itself the means of destroying this pressure, and reproducing it without manual nasistance. The apparatus consists of an oblong square case of about 4 yards in length and 4 ft. 3 in. in depth and width, and within this case are contained the parts which, by their arrangement, and the aid of a liquid of any description, engender a force proportioned to the dimensions of the apparatus and the density of the liquid. These parts consist, firstly, in two holiow pistons, each having about 1 square yard of surface, and height of about 6 in.; each of these pistons is provided in the interior with a small apparatus, acting at given moments as valves, and preventing in turn (by the faculty which they posses of aliding up and down) and intercepting the communication between the mercury in the tube hereinafter mentioned with that OBTAINING MOTIVE-POWER-THE HYDROSTATIC PARADOX.-An in-

barrel is caused to rotate with the shaft by means of a coupling, which slides to and fro on a feather formed on the shaft. With these arrangements the operation of boring is effected in a very rapid and economical manner, as compared with the ordinary mode by hand isbour.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

APRIL 4.—The week before the quarterly meetings of the Iron Trade is usually slack; buyers, except when the market is rising, are indisposed to purchase until the quarterly meetings. These take place next week at Wolverhampton and Birmingham, and there is a disposition on the part of some people to anticipate an improvement. Whether this will actually be experienced or not it is impossible yet to say, but at present the trade is very dull, and can scarcely be worse. The workmen in many parts of the district are only partially employed, and considerable suffering prevails. The amount of relief given is very greatly in excess of that which was being bestowed at the same period of last year. A further reduction of the make of pig-iron is being effected by blowing out additional blast-furnaces, and this appears the only course by means of which the supply can be reduced to the demand, and the present unremunerative price of this class of iron strengthened.

to the demand, and the present unremunerative price of this class of iron strengthened.

In the Hardware Trades of Birmingham, Wolverhampton, Walsall, and South Staffordshire generally, there is very considerable depression, which appears rather to increase than diminish. The unfavourable weather is casting a gloom over the prospects of the next harvest, and tends to add to the distrust which the uncertainty of the maintenance of the peace of Europe and the aspect of American affairs inspire.

The horse-nail makers have gone in at the former rates, having abandoned the insane attempt to obtain an 'advance at the present juncture. But the original cause of the strike remains, and the men refuse to work, for two masters employ men not the sons of operatives in the trade. Hitherto the masters have assisted those employers to resist the demands of the men by supplying them with nails, but they threaten if the men do not go in to cease supplying the iron to other men, and give the men to the 13th inst. to consider the course they will take.

In North Staffordshire a reduction of 10 per cent. in the wages of miners was resolved upon at the quarterly meeting, owing to the depression in the iron trade.

These recepitators of mines were the subjects of informations by Mr. I.

was resolved upon at the quarterly meeting, owing to the depression in the iron trade.

Three proprietors of mines were the subjects of informations by Mr. J. P. Baker, the Government Inspector of Mines in this district, before the stipendiary magistrates at Wolverhampton, on Wednesday. Mr. W. Roberts, ironmaster, of Tipton, was charged with having no break attached to the winding apparatus of his colliery; Mr. W. Harrison, mine owner, of Brownhills, near Walsall, was summoned for not having a steam-gauge to a boiler, nor a break to his winding apparatus; Messrs. Aston and Shaw, of the Cockshut Colliery, near Wolverhampton, were charged with neglecting to provide steam-gauges to two of their engine-boilers, and a break to the machinery for winding. All the defendants pleaded guilty, and the magistrates inflicted a fine for each several offence of 40s. and costs.

REPORT FROM NORTHUMBERLAND AND DURHAM.

REPORT FROM NORTHUMBERLAND AND DURHAM.

APRIL 4.—The Coal and other trades here continue as last reported. The home demand for coal, iron, &c., is good, particularly on the Tyne, where all the iron-works, engine manufactories, &c., are well employed. The works of the Tyne are celebrated over the world, so that the demand for engines of all kinds is very good, and many large orders are also in for iron bridges and similar constructions. At the works of Sir William Armstrong, at Elswick, much activity prevails both in the making of hydraulic engines and also in the manufacture of ordnance. A large number of men are now employed at these works, and the buildings connected with them, together with the numerous dwellings and streets for workmen, &c., have added a large suburb to the town of Newcastle.

On Thursday last the large winding-engine we have noticed formerly was started at the Forster Pil, Seaton Delaval Colliery. The engine was designed by Mr. Marnhall, the The engine consists of two cylinders 36 inches in diameter, with a stroke of 6 ft. The weight of the main shaft and cranks of wrought-tron is 11 tons 13 cwas, and the two open roles are each 25 ft. in diameter, and weigh 44 tons. When in full work the engine will life 72 cwits. of coals in 25 seconds, from 120 fms. deep, while the rolls are making of link molitons. The peculiarity of the engine is that the two cylinders are used by double mitre valves, instead of ordinary steam-sides; and their gearing, which consists of two and the start, stop, or reverse it. The house in which the engine is situated is a most substantial piece of masonry. The gearing outside will be a novelty in the trade as well as the engine, as iron shear legs and girders are to be erected instead of wood framing, as formerly. The pulsers will be of wrought-iron, and 26 ft. diameter. The whole setablishment is on the most gigantic seate, and forms any ears in the progress of coal mining. The quantity of coal the engine will the progress of 12 hours, this would require 80 secres, a

REPORT FROM MONMOUTH AND SOUTH WALES.

REPORT FROM MONMOUTH AND SOUTH WALES.

APRIL 4.—As usual at holiday seasons, there is little opening for observations upon business matters, which during the week may be said, in market phraseology, to have "ruled dull," or, at all events, to have shown no alteration, each branch remaining in its relative position. There are, however, one or two facts connected with the district which may be interesting to those connected with it. The important works of Pen-y-darran are still silent; but the opinion is entertained by some persons that they may yet be put into operation when cartain agreements expire. With reference to Hirwain, the stoppage of which has so asdly reduced the once flourishing settlement of that name, the rumout is revived of the formation of a company, some of them men of capital and influence, to resume operations. In the Swansea Valley, Messrs. Morgan and Lewis are sinking a large pit to a valuable vien of bituminous coal, and it is calculated that towards lood tons of coal will be raised daily. The outlay is expected to be at least 30,000l. Messrs. Gilbertson and Co., late of Cwmavou, have purchased the Postardawe Tin-works.

At the Glamorganabire Assizes, a case which occupied a considerable time, was heard—Lawrence v. The Trustose of the Marquis of Bute. The Suanzea Gazette of yesterday has the subjoined remarks upon it:—"The result of the recent trial at Swansea, which has been to restore to the Lawrence family of Pontypool the part of the mountain in Cwm-ss-furwch, claimsead by the Marquis of Bute's trusters, is likely to be very important, as the colliery opened by Messrs. A. Buchan and Son stands on a part of the ground recovered by this important three days' trial, and of course it will depend now upon a new arrangement with the Lawrence family whether the colliery is to continue writing or no. If we are rightly informed, the Messrs. Rachan bave for some tin mile given up this coal to the Rhymney Iron Company, and, in the present state of trade, when manufacturers' are looking to the sal

Lambert. As an instance of the facilities for loading at this port, it may be mentioned that a few days since no less than 618 tens of the Aberaman Company's coal was put on board a scraw-steamer within eighteen hours. Freights generally indicate a rise.

Trade has somewhat revived at Cardiff, the changing winds having sumptled and again refilled the docks. Among the arrivals was the Heles Stevent, an American, of 2000 tons burden, the last vessel chartered to the States under the old tariff. Of fron the exports are—For Triesto, 708 tons of bar and bundle, by W. Crawshay; for Vigo, 3 tons of bar, by Insole and Son, for Rotterdam, 100 tons of sheet, by Booker and Co., and 100 tons of bar, by A. Hill; for Lisbon, 10 tons of plates and 267 tons of rail, by E. Price; for Coquimbo, 502 tons of rail, by Guest and Co.; for Genos, 178 tons of rail, by the Llynvi Vale Company; for Fernambuco, 301 tons of rail and 15 tons of fables, by the Aberdare Company; for Bath, United States, 893 tons of rail, by the Rhymney Company; for Naples, 214 tons of bar and boundle, by the Rhymney Company; for Naples, 214 tons of bar and boundle, by the Rhymney Company; for Naples, 214 tons of bar and boundle, by the Rhymney Company; for Rotterdam and Son; 600 tons for Tarragons, by Page, Ohlean, and Co.; 230 tons for Havre, by H. Worms; 680 tons for Genoa, from Lietty Shenkin; 650 tons for Lussins, by Powell and Son; 600 tons for Genoa, by the Rhymney Company; 660 tons for Madras, by Fothergill and Co.; 153 tons for Alicante, by Insole and Son; 50 tons for Alicante, by Insole and Son; 50 tons for Genoa, by the Rhymney Company; 600 tons for Madras, by Page, Ohlean, and Co.; 542 tons for Alicante, by Insole and Son; 50 tons for Barcelona, by Page, Ohlean, and Co.; 542 tons for Alicante, by Insole and Son; 50 tons for Barcelona, by Page, Ohlean, and Co.; 542 tons for Alicante, by Insole and Son; 50 tons for Madras, by Page, Ohlean, and Co.; 542 tons for Alicante, by Insole and Son; 50 tons for Madras, by the Rhymney Company.

REPORT FROM YORKSHIRE, DERBYSHIRE, AND LANCASHIRE,

REPORT FROM YORKSHIRE, DERBYSHIRE, AND LANCASHIRE.

APRIL 4.—The Iron Trade still continues languid, but there are no indications that the depression has increased. The ironmasters, at their pre-liminary meeting, have declared their adherence to the old scale of prices, and we hear that this course was the most judicious under the circumstances. The accounts brought from the States by the last mails are a little more encouraging, but the effect of the Tariff Bill will prove, as was anticipated, very prejudicial to our British ironmasters. The metal trades of Sheffield are unusually depressed, owing to this bill, coupled with the high rate of interest charged by the banks. The demand for ship plates is very active, and a large number of orders have been received from Government and private shipbuilding firms. There is also a good enquiry for rails, railway wheels, and axies, at Rotherham, and in two other districts of Yorkshire. It is estimated that there are nearly 30,000 weavers out on strike in Lancashire, which is producing great depression in other departments of the general trade of the county. We have to report a steady and increasing demand for Coal, particularly the bard kinds, which are used for steam purposes. The substitution of this material for coke has given a great impetus to the demand from different railway companies, and much is also required for shipping. Indeed, the demand more than doubles the production. The South Yorkshire and Manchester, Sheffield, and Lincoinshire Companies are now carrying a large quantity of mineral over their line, which is proving already the wisdom of the two companies in amalgamating; and as they have now direct access to the great coallest of south Yorkshire they are carrying immens quantities to market, which were hitherto inadequately supplied.

A very interesting case, and one that occasioned much excitement amongst the collers, was heard at the County Petty Sessions, at Chesterfield, on Saturday, before Messra. E. G. Maynard, Godfey Heathcote, Bernard Lucas,

could not. The magistrates then discharged the men from custody. The decision in this case is causing other coalmasters to revise the memoranda which the men have been required to sign.

The greatest interest was created in Barnsley, on Tuesday, amongst a large body of colliers, in consequence of a charge of conspiracy and intimidation being preferred against seven of the turn-outs at the Woolley Colliery, near that town. There names are Wm. Peel, George Beaumont, Joseph Beaumont, John Scaife, Joseph Kilner, Matthias Ramsden, and Jesse Gooder. The magistrates were Mr. T. Taylor and Col. Daly, and the prisoners were charged under the Act Geo. IV., entitled an Act to repeal the laws relating to the combination of workmen, &c., which enacts, "That if any person shall by threats or intimidation, or molestation, or in any way obstruct another by force, or endawour to force any journeyman, &c., to depart from his hiring, employment, or work, or prevent any person from hiring himself, is liable to a term of imprisonment or committal for trial." Mr. Middleton, barrister, of Leeds, supported the charge, and Mr. W. P. Beberts, the colliers' attorney-general, appeared for all the defendants. The evidence was exceedingly lengthy, but the following summary embraces all the material facts. The Woolley Colliery has been in operation nearly eight years, and in consequence of the difficulties the men had to contend with, the proprietors had paid a higher rate of wages than their neighbours. These difficulties being overcome, they had proposed a reduction, which the men had relased to accept, and one of them, Wm. Pell, said—"You will have another Oaks job," referring to the riots and disturbances connected with that strike. The mass had given notice, but left before that had expired, and they were ejected from their houses. On Monday, March 25, about 70 men who had been engaged in the district came to the colliery, the company having paid their fires, but the turn-outs succeeded in intimidating them, and they were sent back into

Miners' Association of Cornwall and Devonshire.—On Tuesday evening Captain John Prince, of Camborne, delivered a lecture at the Institution, Camborne, "On the Use and Abuse of Safety Fuze in connection with Blasting." He described the old mode of blasting by means of the rush, and of the subsequently improved method by the use of quills, which became quite general before the application of the safety-fuze, invented by the late Mr. Bickford. The dangerous practice of these old methods were pointed out and illustrated. He then described the introduction of the safety-fuze by the late Mr. Bickford, and the subsequent improvement in its manufacture; and now so universal has the practice become, that in all districts where the operation of blasting is performed safety-fuze is applied. The different modes of blasting adopted by miners, the variets of tamping, and tools which were formerly and which are now used, and the different kinds of rocks in which blasting is applied, and its variety of effects under different circumstances, were described, as were also the causes which produce accidents, causing too frequently broken limbs, blindness, and death, which might be prevented by the use of proper precautions on the part of the miner, which were pointed out by the lecturer. An animated discussion took place after the lecture, when many of those interested in mining expressed their desire that Capt. Prince would favour them with another lecture on the same subject. A vote of thanks was unanimously given to Cantain Prince for his lecture. MINERS' ASSOCIATION OF CORNWALL AND DEVONSHIRE. - On Tuesday them with a unanimously given to Captain Prince for his lecture.

Masters and Workmen.—The interesting paper, "Masters and Workmen," by Mr. Mark Fryar, of the School of Mines, Andersonian University, Glasgow, has induced its re-publication in a pamphlet, which can be procured at our office, price 6d. It being a paper entirely in the interest of the masters, and in every way calculated to enlighten the men upon their duties towards their employers, without leading them to expect unreasonable advantages in return, it is well worthy of consideration whether it would not be to the masters' ultimate advantage to circulate it extensively amongst their workpeople. The apparent object of the treatise—that it should be gratifying to the masters, and of a character that the men would read—has been well accomplished; consequently, it may be concluded that a larger number of readers will be obtained than by any other course that could have been pursued. The pamphlet, as a whole, will not be read without benefit by anyone. without benefit by anyone.

CARRYILLA MECHANICS' INSTITUTE, DURHAM.—The members and friends of this institute were highly entertained on Tuesday evening, March 26, by a lecture on geology, by Mr. P. Cooper, mining engineer, of the Grange and Kepler Grange Collieries, who delivered a most valuable and interesting lecture, which was illustrated by a geological map of Great Britain, and by several sections specially prepared for the occasion, showing the order and succession of the rocks, the nature of artesian wells, moniformable strata, organic remains, and the effects of faults. The lecturer also exhibited specimens of organic remains from the triasic, permisan, and carboniferous formations. The lecturer being so well known and appreciated induced the attendance of a very large and respectable andience, who listened with the most marked attention for nearly two hours, to a clear, concise, and most assistancery exposition of the principles and facts of the science. The lecture was repeatedly applauded, and at its conclusion a hearty and manifimous vote of thanks was accorded to the lecturer.

SALES OF COPPER ORES.

SALES OF COPPER ORES AT THE CORNWALL TICKETINGS, FOR THE

5.8	QUARTER ENDIN	G MAR	CH. 1	861.	ings, r	OK	Ti
	Mines. Sal Devon Great Consols	es.	Tons.		Amou:	nt.	
	Clifford		1817		12,502 12,104	0	0
	South Caradon			******	12,104	9	6
	West Basset			*****	9,118	1 2	6
	Par Consols		843	*****	7,868	2	0
	Phonix		1096 1063	******		18	0
	Wheal Basset		651 455	******	4,759	14	6
	South Frances		718	*****	4,483	6	6
	Marke Valley		843 587	******	4,269	18	0
	Great Wheal Alfred		1252 754			13 12	6
	North Roskear		480 1235		3,667	12	0
	South Crinnis		453		3,628 3,595	0	6
	Great South Toigus		497	******	3,561	3 18	6
	Bedford United		602 421			11 8	6
	East Caradon		419		3,337	6	0
	North Downs Alfred Consols East Wheal Russell		499	******		3 18	6 0
	Holmbush		401	******	2,739 2,708	5 8	6
	Tolvadden		607 636		2,622 2,605	10	6
	North Treakerby 2		410	******	2,556	6	0
	Wheal Seton		439 544	******	2,309	8	6 6 6 6 6 6 6
	Crelake		310		1,854	5	6
	Tywarnhaile		483		1,761	12	6
	Wheal Buller		291		1,745 1,632	9	6
	Wheal Buller	******	471 260		1,613	17	6 6 6 0
	East Rosewarne		170 426		1,474	1	0
	East Pool		357		1,421	8	0
	Pendeen		320 320	******	1,303 1,294	6 16	0
	West Stray Park East Crinnis and South Par		170 289		1,259	0	0
	West Aifred		331		1.208	8	0
	North Grambler		178	******	1,137	11	0
	Okel Tor		. 110	******	1,090	12	6
	Gonamena North Wheal Robert		204 124			10	6
	Collacombe		215		963	7	6
	Wheal Anna		189 307	******	942 937	10	6
	Polmear		130 304		922	11	600000000000000000000000000000000000000
	Levant	1	181 260		846	16	6
	South Bedford	2	142			17 16	6
	Condurrow		148 277	******	796 790	8	6
	Treloweth		114		768 724	11	6
	New Treleigh		140		717	11	0
	Charlotte United		104	******	695 694	4	0
	North Basset	2	113	******	656 640	17	6
	Wheal Edward	1			617 605	10	6
	North Crofty Wheal Agar. Rosewarne United	2	169		601	13	6
	Rosewarne United		79	*****	532	18 17	6 6
	Perran Mines	2	85 111	******	531 526	7 8	6
	Wheal Elien	2	135 49		514 501	13	6
	East Carn Brea	i	52	******	476	4	0
	West Fowey	1	60 74	******	430 412		0
	Grambler and St. Aubyn Tresavean		0.8	*****	411 387	9	0
	South Crenver		87		361 355	16	0
	New Hender Devon and Cornwall	1	96	******	327		6
	South Crofty	2	65 83	******	304 299	15	6
	West Trevelyan	1	37	******	289 260	12	6
	Fursden	1	. 60	*****	242	2	0
	Messer Camborne Yean	1	45	******	225 214	17	6
	Great Crinnis	1		******	198 173	14	0
	Devon and Courtenay	1	50		173	10	0
	Trevoole	1	30	*****	162 135	10 19	6
	Spearn MoorSouth Basset	1			132 124	6	0
	Dolcoath		43	******	121	9 5	6
	North Rusy	1	. 15		102	7	6
	South Carn Brea	1	20		102 95	10	6
	Trefusis	1	14	*****	79 78	8 13	0
	Camborne Consols		12	*****	78	18	0
	Caroline	1	16	*****	70 67	12	0
	Wheal Arthur	1	. 20	*****	62	0	0
	Wheal Kitty	1	. 7		60	7 8	6
	Creeg Brawse	i	16	******	. 51	12	0
			. 9		49	5	6
	Great Onsiow Falmouth and Sperries Trobarvah New South Ellen South Ellen	1	. 10		46	15	0
	Trebarvah	1	. 10	*****	35	15	0
	South Ellen	i	. 19	*****	24	4	6
	Trethellan		_		-	-	6
	Total		41,402		£940.811	19	8

- manufacture of the control of the	_	_	-		_
Total	41,40)2	£240,811	19	6
COMPANIES BY WHOM THE ORES					
Mines Royal Company	1496		£ 6,893	15	6
Vivian and Sons	5609		36,637	9	4
Freeman and Co	2130		11,279	13	1
Granfell and Sons	4640		33,096	7	8
Crown Copper Company	1327		7.285	18	5
Sims, Willyams, and Co					4
Williams, Foster, and Co	6494		43,802	4	11
Mason and Elkington				15	1
F. Bankart				13	ĩ
Copper Miners' Company				7	8
C. Lambert				18	6
Newton, Keates, and Co				3	0
Sweetland and Co				13	11

MINERS' FRIEND ASSOCIATION .- An appeal on behalf of a projected Miners' Friend Association.—An appeal on behalf of a projected association for securing more stringent legislative interference in connection with the management of collieries has been issued. The principal promoters appear to be Messra. G. Colwell (the author of "Fiery Facts," which contained some original suggestions for applying the London Corporation Coal Tax), and W. P. Roberts, the colliers' attorney-general. The association appears to ignore altogether the fact that much has already been done to secure the advantages of education to the children, and that the masters contribute largely to the support of those whose means of support have been taken away by colliery accidents. Until the precise details of the scheme are make known it is, of course, impossible to say whether the association is worthy of patronage or not. The appeal concludes thus:—"This association, being sensible of those grievous wrongs, confidently and earmestly appeals to the humanity of a benevolent public to ald in this Christian cause, by forwarding their names as patrons, with subscriptions, however small, in order that pecuniary relief may be promptly sent to all sufferers of this class; and that, as soon as practicable, schools, &c., may be provided in all mining districts, and legal steps taken to induce a wise and just legislation upon this painful subject."

Scottisk Shippull.Dess? Association.—At the monthly meeting of

Total41,402

SCOTTISH SHIPBUILDERS' ASSOCIATION.—At the monthly meeting of SCOTISH SHIPBULDERS ASSOCIATION.—At the monthly meeting of is association, on Monday, a paper was read by Mr. David Kirksidy—"Results of an perimental Enquiry as to the Comparative Tensils Strength and other Proporties of set and Wrought-iron under various Conditions." These results consist of tables and educations derived from about 1500 experiments, extending over several years, and concled by Mr. Kirksidy for Messrs. Robert Napier and Sons. It is scarcely possible to accive a more careful and elaborate series of experiments on any one subject.

NORTH ATLANTIC TELEGRAPH.—The complete report of the "Proceedings of the Royal Geographical Society of Great Britain," which relate to the North Atlantic Telegraph, has been collected and issued in a separate form by Mr. Stanford, the publisher to the Society. The pamphiet contains all the information likely to be required upon the subject, and the facility offered by its publication for accertaining the views for and against the project which have been expressed will do much to remove any doubt that may have existed as to its practicability.

SALES OF COPPER ORES.

SALES OF COPPER ORES AT THE SWANSEA TICKETINGS, FOR THE

QUARTER ENDING 1	LARC	Н, 1861.		V44	**	
Mines.	Tons		Amo	unt.		
Cobre	2873	********	£43,223	11	0	
Ookip	436	********	13,838			
Wheal Maria	520				0	
Springbok	274			2	0	
Cuba Del Soto	610		8,342		6	
African	317	********	2,204		0	
Australian	50			10	0	
Great Barrier	64	*********			0	
Estrella	117	*********			6	
Spanish	19	********		7	6	
Canoblas	12	********		16	0	
San Domingo	9	********			6	
Gellyreath	6	********	110	5	0	
Corbet Dovey	48	********		7	0	
Havre	7	********	96	13	0	
Bathurst	4	********		4	0	
Clarendon	8	*********	44	14	0	
Total	£481		£91,330	3	6	40.
IRISH.			accepano.			10
Berehaven	960	*********	£ 9.400		6	1 70
Knockmahon	780	**********		î	6	
Ballycummisk	78		934		6	
Browhead	26	*******	239		0	
Schull Bay	22	********	152	18	0	
Holyford	5	********	61	5	0	
Potel	1073		#10 F10	_	-	
Total			£18,512	8	6	
SUNDRY PLA	CES.					
Laxey	198	********		17	0	
Acton	16	*********		4	0	
British ore	3	********	60	3	0	
Smith's ore	28	*********	42	0	0	
Total	245		£ 1,654	4	0	
REGULUS, SLAC			~ 2,002			
British			e 1 ens	10		
English and Canadian	47			6	0	
Glo'ster Slag	8	************		0	0	
Rotterdam Slag	19			2	0	
	-			-	_	
Total	178		£ 3,048	0	0	
RECAPITULAT	CION					
Foreign	5481		£91,330	3	6	
Irish	1871		18,512	8	6	
Sundries				4	0	
Regulus, slags, &c	178	*********	3,048	0	0	
Total	7775		£114,544	10	0	
	*****		2114,044	10	v	
COMPANIES BY WHOM THE OR	ES W	VERE PUR	CHASEI	D.		
	T	ons.	Amo	unt		
Copper Miners' Company	2	90			6	
Freeman and Co		13	6824		6	
P. Grenfell and Sons					6	
Sims, Willyams, & Co	15	74		0	9	
Vivian and Sons Williams, Foster, and Co.	15	30			6	
Mines Royal Company	4	68		7	0	
Mason and Elkington	. 3	07			6	
F. Bankhart	2	88		0	0	
Sweetland and Co	3	61		0	0	
C. Lambert	3	53	1,363	8	6	
British and Foreign		96	1,156	16	0	
Total	(2.0	75	C114 544	10	_	
Total	11	10	£114,544	10	0	

TRUTH'S ECHOES; OR SAYINGS AND DOINGS IN MINING.

TRUTH'S ECHOES; OR SAYINGS AND DOINGS IN MINING.

The Mining Share Market has been very inactive during the week, the Easter holidays having had considerable influence on the operations, consequently the bona fide business of the week has been very limited. The standard for tin has again receded, which will greatly interfere with dividend mines, but particularly so with those on the point of meeting costs. During the month of March there has been 30,3001, paid in dividends by Britiah mines, and 50001, by the Linares Mines, worked by British capital; making a total of 35,3001.—East Basser shares have been dealt in at lower rates, but, from enquiries, are likely to improve.—East Carn Brea are freely dealt in, and continue to maintain last quotations.—New Basser shares have been dealt in at former rates.

—There have been more enquiries for Treetowers shares, and some transactions followed.—Stray Park have been rather quiet; a few transactions have taken place at market quotations.—South Carndon and West Carndon shares have been in request at lower rates.—East Carndon have been largely dealt in, and, although a decline took place on Tuesday, a reaction has since followed, and shares continue to maintain the improved price.—Market Valler and West Rose Downs are firm, and business transacted in each mine at present quotations.—West Share Ton shares are in demand at improved rates.—Mary Ann shares are rather quiet.

East Grenville and Wheal Chenville shares have been fairly enquired for, and several shares in each mine changed hands.—Trevoole shares are in fair request, at lower prices.—Great Retallack shares have been fairly enquired for, and several shares in each mine changed hands.—Trevoole shares are in fair request, at lower prices.—Great Retallack shares have been fairly enquired for, and several shares in each mine changed hands.—The soule shares are in fair request, at lower prices.—Great Retallack shares have been fairly enquired for, and several shares have been dealt in at quoted prices, which are lower i

WHEAL TRELAWNY is reported to have improved in the 102 south, the lode being worth 201, per fathom.

YARNER continues to hold out much promise. They have driven full 15 fms. through a good course of copper ore at the 30 east, on the north lode, which is now yielding 5 tons of good quality ore per fathom, with every appearance of a permanency. There is a good orey lode in the 20 west; whilst other places are producing fair quantities of ore. They calculate on sampling by the end of the present month 4001, worth of copper ore. Where the 20 meters of the 20 meters

have sampled a fine pile of ore, computed 480 cons, worth on an average about 41. per ton, but some of it is of much higher value. The new discovery is in the civan, which will pass through it for 40 fms. in length. The 80 and 80 ends west are worth 401. per fathom, and the backs nearly 501. per fathom. This lode appears altogether a new one, going more south of west and north of east than the main lode.

East Cars Brae is reported to be still improving, and likely to make a good mine.—800TH Cars Brae are represented to be bestill improving, and likely to make a good mine.—800TH Cars Brae are represented to be looking very well, and North Basert improving, whilst Wiele Basert is looking less favourable at present.

At Wiele Flance (Brease) they have a good course of tin in the 20 east, 2½ ft. wide, worth 201. per fathom, and free from mundle than the level above. From the appearance of the lodes and the character of the tinstuff there is every reason to believe this mine will make a lasting one, although it may take a little longer time to open than at first calculated.

WHEAL KITTY (St. Agnes) is represented to have improved in the 90 east, where the lode is worth full 201. per fm.; and the lode in the bottom of Holgate's shaft is producing some good tinstuff. The mine generally is looking more satisfactory.

SOUTH WHEAL KITTY: Webb's shaft is now down 8 fms. from surface, where the lode is 3 ft. wide, and worth 161. per fathom, and improving. From three samples taken this week from the bottom of the shaft, the lode will average nearly 3 cwits. of black tin per ton of stuff. The granite in the shaft is wearing out, and it is expected that in 61. in the shaft is the same and producing large quantities of tin.—Wheal Reeff is the shaft was a few provided, and producing large quantities of tin.—Wheal Reeff is the shaft, the lode will average nearly 3 cwits. of black tin per ton of stuff. The granite in the shaft, the lode will average nearly 3 cwits. On black tin per ton of stuff. The granite in the shaft, the lod

ch better than for the last 8 fms.; an important discovery is expected here shortly. Improvement is also looked for in a cross-out driving north from the 33 fm. level, ich is now within a short distance of the north iode.

James Laws.

From Mr. Edward Cooks:—The market, generally, has been very quiet during the week. The high rate of discount that has ruled for some months past tended to contract the operations of the investing public. The rate has now been lowered to 6 per cent., with a fair prespects of a further reduction ere long. The recent news from America leads us to suppose that there will be a peaceable arrangement of the existing differences between the various States in the Union. A settlement in this matter would give an immense stimulous to the metal market, more particularly that for tin, hence good tin mines are just now worth looking after for investment. Sourn Frances shares have recoded, without any apparent cause, from 180 to 145, 150; a few of these shought would not be a bad investment. The samplings are likely to increase. East Caradoos shares have fluctuated during the week between 173 and 1934. The lode that was cut in the 60 a short time since is supposed by some to be the canner lode, while others consider another lode will be found by extending the cross-out, but judging from the price the shares have attained in the market, the cutting of another lode is anticipated. Should this not be realised a reaction in the shares may be expected. East Rusalla shares improved to 736, but have since receded to 636. Gazar Rusallacks shares have had a very serious drop, but we are unable to learn any real cause for it, further than in sympathy with the drop in other mines, owing to the general dulness that prevails. "When things are at their worst," &c., is an old adage, and we really believe they are at their worst," &c., is an old adage, and we really believe they are at their worst," &c., is an old adage, and we really believe they are at their worst, "&c., is an old adage, and we really believe they are at their worst," &c., is an old adage, and we really believe they are at their worst, "&c., is an old adage, and we really believe they are at their worst," &c., is an old adage, and we really believe they are at their worst,

with many others, would advance in price; this improvement we confidently hope will take place ere long, when a great rebound will take place in all classes of investment.

From Mr. WM. Lelean:—The market still indicates a downward tendency, excepting a few mines, such as East Caradon, South Condunter, North Minera, East Genrautle, and one or two others which have been, and still are, in demand. This day there is, as I anticipated a fortnight ago, another fall in the price of tin, of 4l. per ton, and unless the political horizon of American affairs clears up soon I fear that we shall see this metal very much lower; in fact, tin-plates are a complete drug in the market at the present moment. However, it should be borne in mind, that consumption still goes on, and a speedy adjustment of the American mational quarrel would be followed by a great reaction in the price of tin. The following mines appear to be desirable for investment at the present low prices:—West Condunkow, Rosewanne Consols, Cuddra, Wheal Polmear, South Condunkow, North Minera, Wheal Moule, East Transkeing, and Wheal Healt. The Value or Frentzi (lead) (Wrexham) is a mine that has been worked some time by a few poor miners. It is new formed into a company of 1250 shares, limited to 2l., 5s. paid, and they now command a premium of 1½ to 1½. Further particulars respecting this property will soon appear; meantime the demand for shares through private sources continues great, and as much as 1½ premium has been bid in many instances. At Calvadrack, Capitain Charles Thomas has consented to resume the management; this is as it should be, and I slacerely hope that he may avert the expensive workings, if not retrieve much of the late great losses the shareholders have sustained. North Transkersy is reported to be looking well, and shares likely to advance.

MINING PROJECTS IN SOUTH AUSTRALIA-THE WALLAROO MINING COMPANY.

wing extracts from the South Australian Advertiser of Jan. 26 comment or The following extracts from the South Australian Advertiser of Jan. 26 comment on the proceedings resorted to by the owners of certain mineral sections known as the "Wallaroo," and the adjoining ones, ceiled "Wandilta," situate at Yorke's Peninsula, in the colony of South Australia. The proprietors, Messrs. Elder, Stirling, and Co., Mr. John Taylor, and Mr. W. W. Hughes formed a project called the "Wallaroo Mining Company," in order to sell to the colonists a portion of their joint interest in some of the above-named sections, and advertised the prospectus, but the sequel proved that, while the company bore the appellation of "Wallaroo," the shareholders were not to get the Wallaroo sections, but chiefly the "Wallaroo," the shareholders were not to get the Wallaroo sections, but chiefly the "Wallaroo," the shareholders were not to get the Wallaroo sections, but chiefly the "Wallaroo," the shareholders were not to get the Wallaroo sections, but chiefly the "Wallaroo," the shareholders were not to get the Wallaroo sections, but the first properties of the colonies of the

dactons attempt upon the public pure, and an unwassanate procession unnecessarily adverted in an official despatch to certain parties who had effected a sale of mineral claims in the northern districts of that province, there is no doubt equal vigilance will be displayed, and a similar official production be issued, now that a real necessity exists while Mr. J. B. Hughes and Mr. Townsend will have legitimate ground to ask the House of Assembly for the appointment of a committee to ascertain "how far the good faith and public credit of the colony is implicated" in the prospectus of the Wallaroo Mining Company, and report what steps it may deem necessary for the vindication of the public credit.

The one great topic of interest during the month over which our Summary extends has been that relative to mining; and the one mining question which has agitated the public mind, almost to the exclusion of every other, has been the attempt to get up a Wallarow Mining Company. The attempt, owing to the manner in which the movement was initiated, will, we believe, prove to be a signal failure. The best way, however, of laying the whole question before the English public will be to reproduce what has been written on both sides of the question in the columns of this paper.

**RMOTTIME "ADVENTIBLER" OF THEMSAY, JANUARY 17.

on both sides of the question in the columns of this paper.

MOM THE "MOW THE "ADVERTISER" OF THURSDAY, JANUARY 17.

Considerable excitement has been created in Adelaide by a statement that the Wallaroo Mines were to be sold; we can only say that they who believe this are themselves "sold." We should indeed be sorry to discourage mining enterprise in this coions, but we do not consider that the proper way to develope our mineral wealth is by getting up monstrous joint-sicck companies, on the principle "Heads I win, tails you lose." The daily papers have contained a very attractive advertisement on this subject, and as we feel it our duty to offer two or three remarks on this latest mining adventure, we reproduce the advertisement in question, that our readers may have the whole case at once before them. The following is the advertisement referred to:—

PROSPECTUS OF THE WALLAROO MINING COMPANY.

before them. The following is the advertisement referred to:—

PROSPECTUS OF THE WALLAROO MINING COMPANY.

Capital 200,0001., in 40,000 shares of 51. each, 10s. thereof to be paid on application for shares, and the balance within one month after the date of allotment. The proprietors of the Wallaroo Mines, Yorke's Peninsula, offer to the colonial public a share of the present and all future advantages of certain mineral leases of 80-acre sections held by them, being a portion of the original claims secured by Mr. W. W. Hughes. The discoveries on these sections at Wallaroo comprise, it is believed, deposits of copper ore in well-defined iodes, as extensive as any yet recorded to have been discovered in any part of the fined iodes, as extensive as any yet recorded to have been discovered in any part of the world. The mineral leases referred to comprise the several sections leased from the Government, situated on Yorke's Peninsula, and numbered 159c, 1520, 1521, 1951, 1961, 1971, 1921, 193, 1991, 1992, 1993, 1994, 1890, 1994, 1891, 1994, 1891, 1994, 1891, 1994, 1891, 1994, 1891, 1994, 1891, 1994,

to the extent of 400 tons, of equal value, is now in signi, and the company, on the fol-triding cost. The proprietors offer to throw these properties into a joint-stock company, on the fol-many properties and the balance on demand in the month of May next; but that the pro-gregation and the balance on demand in the month of May next; but that the pro-perties reserve to themselves one-fourth of the whole number of shares. That of the prictions reserve to themselves one-fourth of the whole number of shares. That of the whole capital subscribed, which shall not exceed three-fourths of the shares, nor be less than one-half, the proprietors shall place to the credit of the company as their working capital 20 per cent. of such amount so paid, or 11, per share. That if half the number of shares be not subscribed for by May I next, and paid for before the 21st of that month, the proprietors shall return the amounts received by them without any deduction, and the company be considered not formed.

mines; the balance, 120,0001., they will put in their own pockets—that is, if the public I, will subscribe the money—a point rather more than doubtfal. It will, however, be seen I that if haif the total number of shares be aubscribed and paid up before the Sist of May meat the proprietors will take steps for the legal formation of a company, in terms of the prospectus.

We need scarcely say that on such terms no company will ever be formed. The most I walked of the Wallarco sections—those which are nearest to the sea, and those from a walked of the Wallarco sections—those which are nearest to the sea, and those from a world of the Wallarco sections—those which are nearest to the sea, and those from a world of the Wallarco sections for the modest sum or 150,0001, and I are walled to one-fourth of the whole established by the proprietors, who coolly offer the public a few less prompt of the scale of the coolly offer the public as few less prompt of the scale of the coolly offer the public as well as the coolly offer the public as well as the coolly offer the public as well as the scale of the original vendors. This is not encouraging mining enterprise, but is very much like a result would, doubtless, be beneficial; but when we see 200,0001. asked for a few sections of land, upon which the maximum amount to be expended in plant, machinery, labour, and material is only set down at 30,0001, we feel impelied by a sense of public obligation to protest against it, and having so done we now leave the matter with the public.

FROM THE "ATHER "ADVENTISER" OF FRIDAY, JANUARY 18.

The promoters of the Wallaroo Mining Company have awakened to a sense of the impropristy—or, at least, the inexpediency—of the course they pursued in their first attempt to bring their property into the market, and have since prepared for the Adelaide papers a fresh advertisement, substituting the word "Wandita" for "Wallaroo" in the great fact by this time, to the disappance of the substitution of the course they pursued in their first attempt to

and, finally, the wealth of the mines at Wallarco is ascribed to the digxings at the Wandilta. The upshot of the whole matter is a distinction without a difference. We pay our money, and take our choice.

What these sections may turn out we, of course, cannot say; but it is enough that the proprietors who refuse to sell the Home and Wombat shafts are quite willing to sell the Wandilta. They know best which sections to keep and which to sell, and, as men wise in their generation, hasten to dispose of that which they do not care to retain. And who can complain of their terms? They are frank and undisguised. They say in effect, "We have leased a number of mineral sections from the Government; some of them we know to be very rich in copper; these we shall keep for ourselves. Others may be good, bad, or indifferent—time will show; these we will sell. You shall have them cheap. Give us 160,0001, in cash; we will apply 30,0001, to work the sections. The 120,0001, will be a triffe for our own trouble, and should the property turn out well we will simply take a royalty of 25 per cent, as a further recompense, and the rest is your? In other words, if we give the proprietors of these discarded sections 120,0001, they will then allow us to spend 30,0001, to develope their property, upon which they will then ever afterwards levy a tax of 5s. in 11, and, by retaining one-fourth of the whole voting power, elect their own directors, and manage as they think fit a property for which the upublic gave 150,0007. When as yet they did not know it was worth as many pence. Whata happy colony this would be if every mineral lesses, or claimant of mineral leases on Yorke's Peninsula, would "go and do likewise!"

Sir.—The process of "skinning cells" and dissecting a mining prospectus." (such as you have been engaged upon for the last few days with great advantage to the public interests), must be equally disagreeable to those operated upon. There can be but one opinion, and I know there is but one opinion, that you have done good service

put forward by parties who, although they executly acceptance well-known as partners of the leading mercantile firm in Adelaide.

TO THE EDITOR OF THE "CHEMOTICE."

SIR,—The public of South Australia generally are deeply indebted to you for your masterly analysis of the brospectus of the Wallarco, alias Wandita, Mining Company; but I think there is one point on which you hardly explained the matter in its full bearing—that in all probability, by abstaining for a few weeks from speculating, the greater part of the sections, now offered at such a fabulous price, will be in the market at the Government price; as, should the proposal fall through for want of encouragement, it is hardly to be expected that the disappointed proprietors will comply with the regulations, and keep the requisite staff engaged on each rejected section. Were all the sections proved to the extent that two of them are on which shafts have been sunk, then the property would be a fit one to offer to a joint-stock company would find much more profitable employment in fostering the development of mines already proved.

SNELTER.

THE TIN TRADE.—Mr. N. Breebart (Goll and Co., Amsterdam), under date March 30, writes:—The market has not been able to withstand the general opinion so long prevalent that some reduction must take place in prices in order to bring about business. The quotation of 75g fis., which closed the month of February, was supported for a few days, but the firmness which holders had shown hitherto disappeared entirely on receipt of advices of a fresh reduction in London. At the same time that holders showed themselves more disposed to realize, they also submitted to the necessary fall in price, and in this way the value came down gradually to 73 fis. Several thousand slabs changed hands during this retrograde movement, and the market was certainly a great deal relieved by these operations. But after all, it cannot be asserted that any marked change in the position of the article was thereby effected, for no sconer was the fall arrested and the price established at 75 fis., than the transactions ceased simultaneously, and were since restricted to small lots for pressing wants, for which 73½ fis. was paid. Within the last few days the market has shown a little more firmness, and buyers have been obliged to pay 74 fis., which may be considered the price of the day, although it cannot be obtained for original lots of 500 slabs.

Stock of Banca tin on warrants, Feb. 28

the proprieties ability return the amounts received by them without any deduction, and the company be considered not formed.

Our first remark with resterence to this prospectus is, that it conveys to the uninitiated in such matters the idea that the property known as the "Wallarco Mines" is now thrown into the market, whereas the truth is by far the greater portion of Capt. Hughe's valuable mineral leases (Wallarco) are not included in the list of sections now offered for sale. Everyone has heard of the "Wallarco Mines," but very few indeed have studied the plans of the district, so as to be able to see that the property now offered to the public comprises but a small and inferior portion of those calculations of the district, so as to be able to see that the property now offered to the public comprises but a small and inferior portion of those calculations of the district, so as to be able to see that the property now offered to the public comprises but a small and inferior portion of those calculations of the district, so as to be able to see that the property now offered to the public comprises but a small and inferior portion of those calculations of the district, so as to be able to see that the property now offered for sale. Everyone has heard of the "Vallarco Mines," but the same that the common impression would be that this "portion" included all the mineral sections, the "Wallarco Mines," Even our contemporary, the Register, appears to have taken this view of it, as will appear from the following paragraph in that journal on Wednesday:

"WALLAROO MINESO CORPANY.—It will be seen by an advertisement in another company is to be formed for working the Wallarco Mines, of which so much has been written and spoken, those wonderful mines that would soon totally eclipse even the Burra Burra, the mines from which, according to the special reporter of the Register, on December 28, 3000 tons of ore had been raised, were now to be thrown into an open market? But the public must be undeceived, and we, therefore, an Messrs. Von Dadelszen and North (April 3) write:—The decline made further progress during the last month, but more business was done, owing to the lower price, and a considerable quantity of tin has changed hands,

1024; and Continental Europe, 42 pekuls; price §29. From Penang during the same period the quantity was—To Great Britain, 2570 pekuls; America, 2197 pekuls; Continental Europe, ssil; price \$273\cute{4}\$.

Tin-places in the early part of the month were terribly flat and stagmant, but about the middle of the month some considerable purchases were made for America, although prices were very low. This gave confidence to the makers, and a more bealthy tone to the market generally. There have been many enquiries for France, but the prices are so low that business does not result to any extent. The declared value of tin-plates exported during February last, and the first two months of this year, compared with 1859 and 1860, has been as follows:—

Month ended Feb. 28.

1859. 1860. 1861. 1869. 1860. 1861.

£107,726 ...£124,181 ...£52,245 ...£198,353 ...£222,177 ...£88,911

GLASGOW.—The position of the iron trade has not been improved during the month of March, for although returning ease in the money market might have led to a little speculation in our market, it was restrained by Morrill's New Tariff Bill, which was more than enough to discourage the most sanguine. By the passing of that measure, the duties on pig and bar iron have been increased from an ad valorem rate of 24 per cent. to a fixed duty of \$6\$ per ton on the former, and \$15\$ per ton on the latter. To what extent these duties will restrict our exports to the United States time alone can tell; but it is quite possible that so long as iron remains about its present low rate we may yet find a market there for nearly our average shipments of Scotch pig-iron, which during the last six years did not exceed \$2,000 tons per annum, whilst in the four years prior to 1855 the average was 112,000 tons, and the duty 30 per cent. ad valorem. But while we take this view of the question, we must likewise bear in mind that the price of iron was even lower than it now is. But whenever the question that now agitates the commercial world (much more than the political) shall find a solution, either in reunion or entire secession, we shall look for a change either in the protective policy of the North, or in the development of the free trade is deatined to be the bond of union between foreign states, whilst it dissolves the bonds of those who are now enalayed. The tendency of our market throughout the month was decidedly downward; opening at \$5s. 3d., the price soon gave way to 47s. 6d., and afterwards rallied to \$8s. Since then there has been little animation, and we close quite \$45s. 4\frac{1}{3}d. cash for mixed numbers, warrants. The highest price obtained was \$48s. 4\frac{1}{3}d. the lowest \$47s. and the externanted, we have added about \$6,000 tons to the stock of pigiron in Scotland. The number of furnaces in blast in January was 131, now there are only 124; and the extimated production during the last three months is 260,000 tons GLASGOW .- The position of the iron trade has not been improved during

Through the good offices of Mr. Edward King, on behalf of the Wheal Edward King, on behalf of the Wheal Arthur, after four years' negociation, involving great outlay, an arrangement has been entered into, and an agreement signed, by which all differences have been settled. An adit communication will be at once effected upon the north and south lodes, which will not only drain Wheal Edward, but at the same time will greatly facilitate operations in Wheal Arthur, beyond which several side lodes are known to exist. It has been agreed that cross-cuts upon the boundary cross-course shall be at once put out, and paid for jointly by the two companies. By this simple arrangement a large amount of heavy cost will be saved, and ultimately tend to raise the value of the respective properties.

NORTH WALES MINERAL WEALTH.—(From a Correspondent.)—In your last Journal an interesting and correct description was given of the valuable mineral resources of North Wales, especially of that portion of the Principality comprising the carboniferous formation, extending from the Great Ormes Head, the Abergale district, and onward through Minera, near Wrexham, Liangolien, and Lianymynech Hill, well known for its rich deposits of carbonate of copper from the Roman period to the greent time. In the Lianrwst district, and proximate to the River Conway, where the scenery abounds in grandeur and picturesque beauty, mineral wealth has been discovered on a sett comprising about 250 acres, from which about 50001, worth of superior lead ore has been raised, and from which mine (the Pencralg) 3001, worth, or more, will be raised and made ready for market in the present month. The prospects of this set are daily proved by the reports of the superintendent, whose statements show that rich deposits are in store for its enterprising projectors. Anyour correspondent stated last week, the mining interest of North Wales is largely on the onward movement, offering valuable sources for investment when bona fide properties are selected.

METALLIC MINING IN LANARKSHIRE.—A Very valuable mineral pro-

for investment when bons fide properties are selected.

METALLIC MINING IN LANARISHIRE.—A very valuable mineral property is now upon the market, situate near Lesmahagow, and known as South and Over Cumberhead. It is stated to be solely from the circumstance of the former proprietors not possessing means safficient and to spare, in an undertaking foreign to their special pursuits, that this field was not long ago effectually opened. The conviction and knowledge of its value in minerals, particularly lead, were such that so far back as 1713, in parting with a portion of the surface, a very special reservation was made of the underground metals and minerals. Except a few exploratory trials, the ground has since remained untouched. In 1847 a company was projected by Mr. Kennedy, sme of the property of the property, but the commercial disasters soon after, and the advanced ago of the promoter, prevented the project being carried out. In 1815 an elaborate report upon the property was made by Prof. Jamieson, of Edinburgh. After minutely detailing the various minerals found, the professor concludes his report thus:—"The magnitude of the veries, the quantity of one which previous trials have shown them to contain, the excellence of the ore, the nature of the vein-stones, and the kind of strata traversed by the veins, are considerations which induce me to recommend them to, and deem them worthy of, the attention of a mining company." The property has since, and very recently, been inspected by Messrs. W. MacCall and John Watson, both competent miners, and their reports are of a highly encouraging character.

EXPERIMENTS WITH WELSH COAL.—The Victoria and Albert, Royal paddle yacht, at Portsmouth, is taking on board upwards of 400 tons of Nixon's Duffryn Coal, for experimental purposes.

INSTITUTION OF ENGINEERS IN SCOTLAND.—At a special general meeting of members, held in the Philosophical Society's Hall (Mr. W. M. Neilson, President, in the chair); after the transaction of some private business, a valuable paper was read on "Underground Mineral Transit," by Mr. James Ferguson. An interesting discussion ensured, and, at its close, Mr. Ferguson received the thanks of the meeting for his able paper. The institution then adjourned, to meet in a fortnight for the further discussion of "Surface Condensers."

LARGE STEAM-HAMMER.-Messrs. Bain and Wylie, engineers, Eglinton-LARGE STEAM-HAMMER.—Messrs. Bain and Wylie, engineers, Eglintonstreet, have just finished a large steam-hammer on the "moving cylinder" principle of the late Mr. Condie. It is to be erected in one of the iron-works near Birmingham, and will, we expect, do good service in the manufacture of the huge masses of wrought-iron for which it has been designed. The framing consists of two square cast-iron columns, having a clear working space of l6 ft. between them, and bound together by a massive horizontal cast-iron beam. These two columns are surmounted by a pair of segmental frame pillars, which, conjoined, form a complete semi-circular arch, spring up to a height of 23 ft. from the floor line. The hammer cylinder is east of the strongest cold blast-iron (a small portion of it being part of the old lighthouse which formerly stood in front of the harbour, at the foot of York-street), and weighs upwards of 5 tons, with a fall or stroke of 6 ft. The valves are wrought by means of a small horizontal steam-cylinder, to which they are connected, and the attendant has merely to couch gently the silde valve of this miniature engine to put the enormous weight in motion. This hammer, with its anvil block and sole-plate, weighs about 80 tons, and will, no doubt, do credit to the constructors, and still further perpetuate the memory and genius of the inventor.—Glosgow Herald.

The Owlet Papers.—The second number of the magazine bearing this title has been issued, and is certainly vastly superior, both in the quantity and qua-

THE OWLET FAPERS.—The second number of the magnature ocaring this title has been issued, and is certainly vastly superior, both in the quantity and quality of the matter, to its predecessor. The mysterious old fellow, Owlet, continues his lectures, and "Falconfels" has now reached the sixth chapter. "Domestic Ecocomics" has been commenced with the history of sait, which will be read with pleasure; and "Humburg as one of the Fine Arts" will likewise well repay perusal. In addition to these no less than 13 other subjects are treated of.

TO CAPITALISTS AND BANKERS—SAFE INVESTMENT.

—The PROPRIETOR of one of the RICHEST COPPER and SILVER-LEAD MINES in the kingdom WISHES to MEET with a PARTY or PARTIES commanding a few thousand pounds (with whom a safe and liberal arrangement will be made) to PROVIDE the necessary PLANT, and to EXTEND OPERATIONS. The mines are now producing, and could be worked to great profit at comparatively little cost, being principally by levels, with abundance of water-power, &c.—Full particulars, and specimens, by addressing "F. G. S.," Mitre Tavern, Mitre-court, Fleet-street.

NICKEL AND COBALT REFINING, AND GERMAN SILVER WORKS, 16, 00ZELL STREET NORTH, BIRMINGHAM.
STEPHEN BARKER begs to inform the Trade that he has the following articles

breale:—
REFINED METALLIC NICKEL. | OXIDE OF COBALT. (WIRE, &c. REFINED METALLIC BISMUTH. | GERMAN SILVER—IN INGOTS, SHEET NICKEL AND COPALT ORES PURCHASED.

GOLDENHILL, COBALT, NICKEL, COLOUR, BORAX, AND CHEMICAL WORKS,
NEAR STOKE-UPON-TRENT, STAFFORDSHIRE.
JOHN HENSHALL-WILLIAMSON, MANUFACTURER AND REFINER.
Reference.—Professor Miller, King's College, London.

PRACTICAL GEOLOGY—KING'S COLLEGE, LONDON.—
PROF. TENNANT, F.G.S., will give a COURSE of LECTURES on GEOLOGY, having especial reference to the APPLICATION of the SCIENCE to ENGINEERING. MINING, ARCHITECTURE, and AGRICULTURE. The lectures will commence on Friday morning, April 12, at Nine o'clock. They will be continued on each succeeding Wednesday and Friday, at the same hour. Fee, £1 11s. 6d.
R. W. JELF, D.D., Principal.

EVENING LECTURES ON GEOLOGY, AT THE GOVERNMENT SCHOOL OF MINES, JERMYN STREET.—MR. WARINGTON W. SMYTH, M.A., F.E.S., will COMMENCE a COURSE of TEN LECTURES on GEOLOGY, on Monday, 18th April, at Eight o'clock; to be continued on each succeding Thursday and Monday evening, at the same hour. Tickets for the whole course, price 5a., may be had at the Museum of Practical Geology.

PROF. TYNDALL, F.R.S., will COMMENCE a COURSE of THIRTY-SIX LECTURES on PHYSICS, at the GOVERNMENT SCHOOL OF MINES, JERMYN STREET, on Monday, 15th April, at Two r.M.; to be continued on each succeeding Tuesday, Wednesday, Thursday, and Monday, at the same bour. Zee for the course, 30s.

NG.

t of livi-rent are orth tons is a

d in acks they

nine. price sser provthe duclode aken k tin 6 ft. fur-

ities xpe-y be imthe outil ws a sent's sities

king

CLARENDON CONSOLIDATED MINING COMPANY OF JAMAICA (LIMITED).—Notice is hereby given, that the directors have this day made a CALL of TWO SHILLINGS AND SIXPENCE PER SHARE on the thares of the company, PAYABLE on or before the 10th day of April next, at the bankers of the company, Messrs. Heywood, Kennards, and Co., No. 4, Lombard-street, London, and the shareholders are hereby required to pay the same accordingly.

The transfer books will be closed from 22d January to 1st February, both days incluive.

By order, JOHN H. KOCH, Sec. 187, Gresham-house, Old Broad-street, London, January 22, 1881

NOTICE IS HEREBY GIVEN, that an EXTRAORDINARY OTICE IS HEREBY GIVEN, that an EATRAORDINARY
GENERAL MEETING of the shareholders of the HUELVA COPPER MINING
COMPANY (LIMITED) will be HELD at the office of the company, No. 17, Gracochurch-street, London, on MONDAY, the 15th April, 1861, at One o'elock precisely, for
the purpose of receiving from the liquidators appointed to wind up the affairs of the company a statement of the progress made in such winding up, and (if the meeting think it)
to confer upon the liquidators power to compromise calls and debts due to the company,
and any claims against the company; and also for the purpose of appointing a person or
persons to inspect the accounts and wouchers of the liquidators, pursuant to the JointStock Companies Acts.

Dated April 4, 1861.

Liquidators,

Liquidators,

Liquidators,

MARIQUITA AND NEW GRANADA MINING COMPANY.—
Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING or
the above company will be HELD as the London Tavern, on Wednesday, the 17th day
of April next, at Two o'clock is the afternoon, at which meeting a resolution to the following effect will be proposed for the approval of the shareholders:—
That the directors be authorised, in conformity with the Deed of Settlement, to borrow
a sum not exceeding £7300 in addition to the £12,700 aiready borrowed upon the debentures of the company, upon such terms as to interest and time of payment as may
appear desirable, provided the rate of interest does not exceed 10 per cent. per annum.
No. 2, New Bank-buildings, E.C., March 28, 1861.

L. R. JONES, See

THE SOUTH DEVON IRON AND GENERAL MINING COMPANY (LIMITED)—PREFERENCE STOCK.—Notice is hereby given, that the remainder of the 6000 preference shares, bearing a preferential dividend of 10 per cent. per annum, are hereby offered to the existing shareholders, application for which should be made on or before Tuesday, the 16 day of April, when any that may remain unsusberibed for will be allotted to other than existing shareholders.

ATLAS TIN MINES.—The tin lodes are producing fine work for tin; 8 heads of stamps, of 3 cwts. each, have been stamping tin ore during the past month. The burning-house will be ready to receive the tin now being stamped by the end of the ensuing month, when regular monthly sales may be expected.

ATLAS IRON MINE.—Final arrangements have been made respecting the Bovey lignite; the fire-bricks have arrived, and the furnaces for the purpose of converting the large deposits of iron ore into charcoal iron will be immediately proceeded with.

By order, GEORGE F. GOODMAN, Sec.
City Bank Chambers, Threadneedle-street, London, E.C., March 28, 1861.

N.B.—Ten shillings per share will be required to be paid on allotment, and the remaining loss, per share on the lat day of May next.

RESPRYN COPPER MINING COMPANY (LIMITED).

Capital £25,000, in 25,000 shares of £1 each.

Capital £25,000, in 25,000 shares of £1 each.

10s. thereof to be paid on application for shares, and 10s. on the issue of the certificates of shares.

The directors have succeeded in making such alterations in the terms with the vendors of the mine, that a saving to the company of £4000 is now effected, and they have consequently determined not to issue more than 20,000 shares, without the consent of the shareholders specially summoned.

Pending the constitution of the share list, the directors, on their personal responsibility, have purphased the engine (72-inch vilinder) at the Wheal Mars. Micro which for the consent of the consent of the consent of the consent of the shareholders specially summoned.

the snareholders specially summoned.

Pending the constitution of the share list, the directors, on their personal responsibility have purchased the engine (72-inch cylinder) at the Wheal Messer Mine, which is admirably suited to the requirements of Respryn, and has been obtained on very advantageous terms.

tageous terms.

The superintendent states that as soon as the water is drawn to below the 10 fathon level he will make returns of ore, and tributers have offered to take pitches as soon as they are enabled to work at that point.

Prospectuses and every information may be obtained on application at the offices, No. 3 Cannon-street, London, E.C.; or from the brokers, Messrs. Wesn and Gracu. 8, Finch lane; and Stock Exchange, London.

W. W. MANSELL, Manager,

THE TALYSARN SLATE COMPANY (LIMITED)

The Rev. M. W. LUSIGNAN, M.A., All Hallows, Thames-street.
JOHN A. L. BARNARD, Esq., 52, Gracechurch-street, E.C.
JAMES CLIFFORD HODGES, Esq., Great Tower-street.
MARK JOHN TOMKINS, Esq., Green Bank Saw Mills, St. George's East, and Plaistow, Essex.

AMES CLIFFORD HODGES, Esq., Green Bank Saw Mills, St., George's East, and Plaistow, Essex.

At a GENERAL MEETING of shareholders in the above company, held on Thursday, the 4th inst., at 9, Ely-place, Holborn,
JOHN HEAD, Esq., in the chair,
The report having been read, the following resolutions were carried unanimously:—
1.—That the report now read be received and adopted.
2. That the election of Sir Philip Clarke and Major Miller as directors be cancelled, the same having been irregularly made.
3. That the two directors who retire at this meeting be re-elected.
4. That Mr. Elderton be dismissed from the office of solicitor, and that he be required to deliver to the directors, at No. 9, Ely Place, Holborn, all books, papers, property, and documents in his hands belonging to the company; to deliver an account, and to pay over to the bankers of the company all monies received by him belonging to the company.
5. That Benjamin Hope, Eq., of 9, Ely-Place, Holborn-hill, be, and is hereby, appointed solicitor to the company.
6. That proceedings be taken for the recovery of arrears of call.
7. It being estimated that the outstanding liabilities of the company, exclusive of the vendor's claim, do not exceed 2001. -Resolved, that all unsettled claims against the company be at once investigated and discharged.
8. That the directors be authorised to settle, as they may see best, the present disputes with the mortgages, and to raise by the issue of shares, or otherwise, the necessary capital for that purpose, for payment of the vendor, and for the efficient working of the quarries; and in the event of no arrangement being come to, that the proceedings advised by counsel be instituted against the mortgagees.
9. That the foregoing resolutions be advertised in the daily papers and Mining Journal. That the thanks of the meeting be given to the Chairman, for his ability and courtesy in the chair.

THE GLAN-Y-PWLL SLATE AND SLAB COMPANY (LIMITED). Capital £30,000, in 6000 shares of £5 each. Incorporated pursuant to the Joint-Stock Companies Act, 1856-57.

Incorporated pursuant to the Joint-Stock Companies Act, 1856-57.

Benetores.

Col. Bush, 55, York-terrace, Regent's-park.

G. B. Carr, Esq., Merchant, 5, Lawrence Pountney-place, Cannon-street, William Ogillvie, Esq., Cushion-court, Oid Broad-street, City.

JOSEPH JACKLIN, Esq., Brighton (late firm Pontifex and Jacklin).

Lieut-Col. Geroge C'Beryen Offley, Albion Tower, South Norwood.

MORRIS ROBERTS, Esq. (firm of Roberts and Griffiths), Glammer's Slate Works, narvon.

Bankers-The London and County Bank.

Bollettons-Messrs. Huggins and Rowsell, 1, Threatneedle-street, London.

Messrs. J.J. Stephens and Son, Dublin.

Messrs. Brodie and Byrn, Liver Chambers, Liverpool.

Mr. Robert M'Ewen, Ducle-buildings, Bank-street, Exchange, Manche Manager-Thomas Cooper Smith.

OFFICES,-5, WARNFORD COURT, THHOOMORTON STREET, CITY.

The object of this company is to work the Glan-y-Pwill Slate Quarries, situated is

The object of this company is to work the Gian-y-Pwil Slate Quarries, situated in the arish of Festiniog, in the county of Merioneth, North Wales, and on the same mountal ange as those magnificent quarries owned by Lord Palmerston, Messrs. Huddart an lathews, and Mr. Holland. This sett adjoins their boundary, is a direct continuatio their seam, and consequently produces slate rock of precisely the same character an mality.

of their seam, and consequency prosuces such to the following favourable conditions, quality.

This property is held under lease for 40 years, on the following favourable conditions, viz.:—For every ton of slate, flag stone, or other states a royalty of 1s. 3d., subject in the meantime to an annual rent of £10 merging into the royalties.

From the position of this sett it is, perhaps, usequalled in Wales in natural facilities. The workings are about 258 yards from the level, and the slate rock crops out from the pop of the meantain. From the works an incline, at a comparatively small cost, may be laid down for the conveyance of slates in railway trucks direct to the main line, running within 100 yards of the mountain, to the quay at Port Madoc. The carriage is about 3s. 6d. per ton. Another very important advantage is the space afforded for the deposit of waste or debris sufficient for an unlimited poriod. The water-power is at all seasons ample for any work that may be required.

about of water or debris sufficient for an unlimited poriod. The water-power is at all seasons ample for any work that may be required.

From an estimate recently made, it appears that slate rock may be broken down and manufactured for market at 21s. per ton; the market value is from 40s. to 50s. per ton. With a capital of £10,000 it is estimated that 60 tons of slate can be made per month, the value of which at 40s. per ton is £1200, or £14,400 per annum, which, allowing for working expenses, royalty, cartage, and agency, will yield a nett profit of £4010, or at the rate of 40 per cent. These returns may be considerably increased as the operations extend. Mr. Robert Hunt, F.R.S., has recently made a calculation as to the average of the profits from the workings of slate quarries in Wales; he gives them at upwards of 50 per cent., and some of the large quarries, it is confidently affirmed, realise as much as 100 per oent. So great and increasing is the demand for slates, that the supply is not equal to half the demand.

The following quarries are aid to return annual profits as under:—The Penrhyn from £100,000 to £120,000, the Lianberris from £70,000 to £80,000, Lord Palmerston's upwards of £30,000, and those adjacent to the Gian-y-Pwil in the same proportion. The annexed reports are from good practical men of business; as extensive quarry managers, their testimony to the value of the Gian-y-Pwil sett, with regard to the many advantages already referred to, will be read with interest, and leave nothing to be urged by the directors.

managers, their testimony to the value of the Gian-y-Pwil sett, with regard to the many advantages already referred to, will be read with interest, and leave nothing to be urged by the directors.

Such is the confidence entertained of the value of this property, and the favourable conditions on which it is held, that some of the directors have individually taken, and now hold, an interest in it; but which, including the lease, the plant, the slates now on the quarry bank, and the benefit of the work siready done, it has been agreed to purchase for £10,000. A most favourable arrangement has been made, by which £5000 only in cash will be required in instalments, and £5000 in shares of the company, as follows, viz.:—1000 shares paid to £2 per share.

The capital of the company will consist of £30,000, in 6000 shares of £5 each. Deposit £1 per share, 10s. on application and 10s. on allotment. No further payment on shares for six months.

The company having been completely registered with limited liability, no shareholder can, under any circumstances whatever, be made responsible for a greater amount than the shares to which he subscribes.

There are no special Articles of Association, Table B under the Joint-Stock Companies Act of Parliament having been adopted in its entirety.

To ensure subscriber from any loss, which often arises when a sufficient number of shares are not subscribed for, the directors bind themselves to return the whole of the deposit money, unless at least one-half of the shares be taken.

A considerable portion of the required capital has been already privately subscribed.

Plans of the quarry, together with reports and samples of the slates, may be seen at

considerable portion of the required capital has been already privately subscribed, use of the quarry, together with reports and samples of the states, may be seen a ffice of the company.

aining shares to be made in the enclosed form to the bankers, manager, at the office of the company.

In Chancery.

TO BE SOLD, pursuant to a Decree of the High Court of Chancery, made in a Cause of WYLDE v. RADFORD, with the approbation of Vice-Chancellor Sir Richard Torin Kindersley, in One Lot, by Mr. James Carter, the person appointed by the said Judge for that purpose, at the George Hotel, at Alfreion, in the county of Derby, on Tuesday, the 30th day of April, 1861, at Two c'clock in the afternoon, certain BED VEINS, SEAMS and DELPHS of COAL, IRONSTONE, and OTHER MINERALS and MINERAL SUBSTANCES whatsoever lying and being within and under certain lands and hereditaments in the parish of ALFRETON, in the county of DERBY, now or size in the occupation of James Marples, and containing an area of 66 a. 2n. 10v. or thereabouts, particulars whereof may be had gratits at the office of Mr. Sanuez Richard Shilton, solicitor, Nottingham and Southwell; Massers. John and Francis Barber and Curren, the auctioner; Mr. Thomas Shirley, Solicitors, Derby; Mr. James Carter, the auctioner; Mr. Thomas Shirley, Structural's Inn, London (Mr. Charles) FUGH, Chief Clerk.

THOMAS SMITH, 15, Furnival's Inn, London (Agent for Sanuel Richard Parr Shilton, Nottingham, plaintiff's solicitor).

Dated this 23d day of March, 1861.

(Agent for Samuel Richard Dated this 23d day of March, 1861.

Stannaries of Cornwall.

In the Court of the Vice-Warden of the Stannaries

Stannaries of Cornwall.

In the MATTER of the SWANPOOL MINING COMPANY (LIMITED), and in the MATTER of the JOINT-STOCK COMPANIES ACTS, 1856, 1857.—TO BE SOLD, by direction of the JOINT-STOCK COMPANIES ACTS, with the sanction of the said court, BY PUBLIC AUCTION, on Tuesday, the 23d day of April inst., at Eleven o'clock in the forenon, subject to such conditions as shall be then produced, and in such lots as shall be then determined on, the whole of the VALU-ABLE MINING MACHINERY, MATERIALS, and OTHER EFFECTS at and upon SWANPOOL MINE, and the works thereupon, situate in the parish of Budock, within the said Stannaries, particulars of which appear in handbills.

The mines are held under and by virtue of three certain indentures of lease, dated respectively the 24th day of June, 1851, and the 24th day of October, 1851. And the estate and interest of the lessees therein, under the said several indentures of lease, will on the same day be offered for sale.

The mines may be inspected at any time prior to the sale, on application to Mr. Rooks, in charge thereof; and further particulars, with conditions of sale, may be had on application at the office of the Official Liquidator of the said company, in Truro; to Mr. TILLY, solicitor, Falmouth; to Messrs. Hodge, Hockers, and Marnack, solicitors, Truro; to Messrs, VALLANCE and VALLANCE, solicitors, 20, Essex-street, Strand, London; and to Mr. Stokes, solicitor, Truro.—Dated Truro, April 3, 1861.

THE SWANPOOL SMELTING WORKS.

THE SWANFOOL SMELTING WORKS,

VALUABLE AND EXTENSIVE SMELTING WORKS, NEAR

PALMOUTH, CORNWALL, FOR SALE.—A PUBLIC AUCTION WILL BE

HOLDEN at the Green Bank Hotel, Falmouth, on Saturday, the 20th day of April inst., at Twelve o'clock at noon, for SELLING, in One Lot, with the concurrence of the Court of the Vice-Warden of the Stannaries, all that VALUABLE and EXTENSIVE PRO
PERTY, situate at Swanpool, in the parish of Budock, near Falmouth, known as the SWANFOOL SMELTING WORKS, together with the various MACHINERY, MA
TERIALS, and EFFECTS thereon, particulars of which appear in handbilis.

The above works are of a very superior description, no expense having been spared in their erection to render them most efficient and complete; and having been constructed by the company within the last two years, they will be found in excellent repair and condition.

condition.

The above may be inspected at any time prior to the sale, on application to Mr. I in charge thereof; and further particulars of the sale may be had on application office of the Official Liquidator of the Swanpool Mining Company (Limited), in To Messrs. Vallance and Vallance, solicitors, No. 20, Essex-street, Strand, Lo or to Mr. Stokes, solicitor, Truro.—Dated Truro, April 3, 1861.

THE TORBANE HILL MINERAL.—FOR SALE, A LARGE QUANTITY OF THIS CELEBRATED MINERAL.—There will be SOLD, BY PUBLIC AUCTION, within the sale rooms of Mesers. P. Burn and Co., S. Exchange-place, Glasgow, at Twelve o'clock noon, on the 17th April, 1861, a LARGE QUANTITY of the MINERAL in question, in lots to suit purchasers. The quality will be equal to the best in the market, being identical with the best Boghead as sold by Mesers. James Russel and Son. Samples will be seen, and particulars learned, on application at Mesers. P. Burn and Co.'s; or to Mr. GILLESPIE, Torbane Hill House.

COAL AND IRONSTONE MINES,—TO BE LET, on royalty, upwards of SIXTY ACRES, with TWO ENGINES, &c. There is a canal and public wharf within a short distance, and there is every probability of a railway being made which will afford communications with London and Birmingham. To an enterprising and responsible party the proprietor would afford every liberal accommodation.—Apply to Messrs. Rawlins and Rowley, solicitors, Birmingham.

FOR SALE, a NOVEL DESIGN of a STEAM BOILER. The boiler in question may be made without rivets, and contains a vast extra heating surface. Very little fire will be required. It will be applicable itind of engine, and portable if necessary.—Apply to "77," Mining Journal off Fleet-street, London, E.C.

FOR SALE, the BRYNGLAS SILVER-LEAD MINE, situate near Ponterwydd, and about three miles from the Devil's Bridge, and twelve miles from the port of Aberystwith, Cardiganshire.

The above mine has been worked by the present proprietors for nearly three years, and the machinery for pumplus, crushing, and dressing the ore is of the very best description, and in perfect working order.

Upwards of £5000 has been expended in the erection of the machinery and the deve lopment of the mine. The shaft is sunk 26 fms. In the level in the bottom the lode is worth from 15 to 20 cwts. per fm. The lode in the 20 fm. level is also worth from 15 to 20 cwts. per fm. There is an abundant supply of water, and the royalty is moderate. For further particulars, apply to the Secretary, at the offices, Claremont Hill, Shrewsburg.

TO BE SOLD, BY PRIVATE TREATY, the LEASE in perpetuity and PLANT of a VALUABLE LEAD MINING SETT, which it life indig by half a mile wide, and which has been worked by a private gentleman to a profit for many years, but who is now deceased. This offers an opportunity seldom met with for parties wishful to form a public company.—Every information will by forthcoming by applying to "X. Y. Z.," Mining Journal office, 26, Fleet-street, London.

SLATE QUARRY.—The LEASE of a most VALUABLE SLATE QUARRY in the Festinicg range, which can be opened up and worked to great profit, at comparatively little outlay, TO BE SOLD on very moderate and easy terms, Address, "Sinte Quarry," Mining Journal office, 26, Ficet-street, London, E.C.

TMPORTANT TO CAPITALISTS—VALUABLE SLATE AND SLAB VEIN FOR SALE.—TO BE DISPOSED OF, BY PRIVATE CONTRACT, an EXTENSIVE SLATE and SLAB VEIN, most advantageously situated within half a mile from the proposed milway terminus at Bettws.y-Cood.—Plans, particulars, and reports may be had at the Mining Journal office, 26, Fleet-street, London, E.C., and of Mr. W. DEW, Bangor, North Wales.

of Mr. W. Daw, Bangor, North Wales.

OUTH WALES COLLIERY, MERTHYR DISTRICT.—TO

BE DISPOSED OF, BY PRIVATE CONTRACT, on very advantageous terms, a
HIGHLY IMPORTANT COLLIERY, known as the TYLACOCH COLLIERY, situate
in the RifloNDDA VALLEY, on the Rhondda branch of the Taff Valle Railway, by which
line the coals are conveyed to the Cardiff docks. The quality of the coal is quite equal
to the Merthy coal, and is preferred to it for the use of the locomotives on the line. The
thickness of the seam is about 6 ft., and the area is 951 a. 2 n. 20 r.
There is one shaft sunk to the upper 4 ft. vein of coal, a depth of 154 yards from the
surface, and the quantity to be raised is estimated at 50,000 tons per annum. The galeage
varies from 3d. to 9d. per ton on the large and small coal.
There is a farm attached to this colliery, which is in an excellent state of cultivation,
and upon which a large outlay has been made in improvements by draining and otherwise.
For further particulars, spply to Messrs. Fullers and Houssey, 13, Billiter-street,
London, E.C.; or to Mr. D. LLEWELLIN, mining engineer, Glyn Ngath, Glamorganspire.

IMPORTANT TO MINERAL PROPRIETORS.-TO BE LET MPORTANT TO MINERAL PROPRIETORS.—TO BE HET
OR SOLD, the whole MINERALS of SOUTH and OVER CUMBERHEAD, conisting of LEAD, COPPER, ZINC, IRON, &c., situated near LESMAHAGOW, in the
Ipper Ward of LANARKSHIRE. As these, with one or two exceptions in active opeation, are the only mines of the kind in Scotland, as they were undoubtedly worked to
dvantage in remote times, and are known to have been little or at all disturbed for the
sat century and a half, possessing the great advantages of being in a populous county, in
he same district as the celebrated lead hills, with good access by a mineral raliway in
heir immediate neighbourhood, and as the progress of mining science in facilities and
working economy have been enormously developed during this long period, they may be
onsidered to present a most tempting field for the enterprise of mining capitalists.
In a report upon them in 1815, by Professor Jamiescon, of Edinburgh, the most eminent
ecologist of his day, he concludes as follows:—"The magnitude of the veins, the quanity of ore which previous trials have shown them to contain, the excellence of the ore,

geologist of his day, he concludes as follows:—"The magnitude of the veins, the quantity of ore which previous trials have shown them to contain, the excellence of the ore, the nature of the vein stones, the kind of strata traversed by the veins, are considerations which induce me to recommend them to, and deem them worthy of, the attention of a mining company."

Reports and further information may be had on application to Mr. Hugh Bosle, 122, St. Vincent-atreet, Glasgow.

THE ALDERWASLEY FORGE AND WORKS, NEAR THE AMBERGATE STATION ON THE MIDLAND RAILWAY.—70 BE LET, on a lease for 7, 14, or 21 years, and may be entered upon immediately, the above-mendoned FORGE and WORKS, with the STORE ROOMS, OFFICES and BULLDINGS, ROLLING and SLITTING MILLS, on the banks of the River Derwent, in the liberty of Alderwasley, and the WATER-WIELES of 70 horse power and MACHINERY be longing thereto, iate in the occupation of Messrs. Mold, who for inearly 50 years carried on a lucrative and extensive business as irromasters at the said works, together with a newly-erected MESSUAGE, or DWELLING HOUSE, very pleasantly situated near the said works, with the green-house, state, so cach-house, and capital garden belonging thereto, and upwards of 30 acres of excellent land, and 15 workmen's houses and counting-house, near or contiguous to the works.

The works are situated within half a mile of the Ambergate station on the Midland Railway, and the Cromford and Belper turnpike-road, the branch railway from Ambergate to Rowsley (on which there is a siding and what for the use of the works), are all parallel therewith and immediately contiguous thereto, and afford excellent railway and canal transit to and from London, Leeds, Nottingham, Derby, and all parts of the kingdom; and the extension of the railway from Rowsley to Buxton, now in progress, will give a direct communication with Manchester, Liverpool, &c.

The works are also available for sew-mills on an extensive scale, or for any other purpose requiring power and facility of transit.

For farther particulars, and to treat, application may be made to Messrs. Woodhouse and Sors, solicitors, Maticok, from whom tickets may be obtained to inspect the works.

WHEATLEY KIRK AND CO., GENERAL ENGINEERS, MACHINISTS, TOOL MAKERS, &c., of MANCHESTER, continue to sup-ly any class of machinery for home and exportation, with the utmost facility. Their talogue is sent by post (free) on application.

WHEATLEY KIRK AND CO. CALL ESPECIAL ATTENTION to their STOCKS, TAPS, and DIES. WHITWORTH STANDARDS of various sizes in cases.—Manchester, March, 1861.

BELL BROTHERS beg to intimate that, having become SOLE LICENSKES in the United Kingdom of Phor. DEVILLE'S METHOD of PRODUCING PURE ALUMINIUM, they are now in a POSITION to SUPPLY, from their works here, both this metal and its compound with copper, known under the name of ALUMINIUM BRONZE.—Newcastle-on-Tyne, September, 1860.

FOR SALE, a CONDENSING ENGINE, 36 in. cylinder, 7 ft.

A CONDENSING ENGINE, 12 in. cylinder, 3 ft. 6 in. stroke, beam 12 ft. long, with pumping and winding apparatus; and one CYLINDRICAL BOILER, 25 ft. by 4 ft., with steam and feed pipe complete.

A HIGH PRESSURE ENGINE, 12 in. cylinder, 2 ft. 9 in. stroke, coam 10 ft. long, with winding apparatus; and one CYLINDRICAL BOILER 20 ft. by it., with steam and feed pipes.

Also a quantity of pumps, &c.—Apply to the BROUGHTON COAL Co., near Wret. am.

TO ENGINEERS, MILLWRIGHTS, &c.—KIRKSTALL FORGE, YORKSHIRE, has long been famous for the excellency of its manufactures, and attention having been directed to the manufacturing of TURNING BARS, a first-rate reputation has now been established for these bars, for bright or black shafting, &c. They are STRAIGHT, ROUND, SOLID, ENTIRELY FREE from LAMINATIONS and SCALES, and at the same time STRONG BODIED, and the PRICE does NOT EXCEED the cost of ordinary STAFFORDSHIRE or best SCOTCH BARS, while it is infinitely MORE ECONOMICAL than any other iron in the market, being so very much more easily finished for use. A large stock always on hand, in long lengths, up to 6½ diameter; can be rolled to 8 in. diameter.—Apply to ROBERTSON BROTHERS and Co., Iron Merchants, 44, 81. Enoch-square, Glasgow.

TO BOILER MAKERS, IRON SHIPBUILDERS, AND A ENGINEERS.—Yorkshire iron has long been admitted to be the best in the market, and experience has proved that MILTON BEST REFINED BOILER PLATES are without exception the BEST value TO BE PROCURED, COMBINING as they do GREAT DUCTILITY and TENSILE STRENGTH with MODERATION in COST, the price very little if at all exceeding that of Scotch boiler plates.—Apply to Robertson Briotheris and Co., 44, St. Enoch-square, Glasgow.

HEMP AND WIRE-ROPES

JOHN STEPHENS AND SON, HEMP AND WIRE-ROPE WORKS, ASHFIELD, FALMOUTH, CORNWALL, MANUFACTURERS OF FLAT and ROUND HEMP and WIRE-ROPES, GUIDE RODS for SHAFTS, GALVANISED WIRE SIGNAL LINE and STRAND FENCING, RODS for SHAFTS, GALVANISED WIRE SIGNAL LINE and SHAGND ELECTROP, see, for MINES, RAILWAYS, &c.

A first-class medal was awarded to John Stephens and Son for their manufactures, by the Royal Cornwall Polytechnic Society, in 1880.

PATENT BITUMINIZED GAS, WATER, AND DRAINAGE
PIPES,—These PIPES POSSESS all the PROPERTIES NECESSARY for the
CONVEYANCE of GAS and WATER, and also for DRAINAGE PURPOSSES—viz.,
GREAT STRENGTH, GREAT DURABILITY, and PERFECT INOXIDABILITY,
and being non-conductors are not affected by frost, like metal pipes. They are proved
to resist a pressure of 220 lbs. on the square inch (equal to 500 ft. head of water), are
only one-fourth the weight, and considerably cheaper than iron pipes. They are made
in 7 ft. lengths, and the joinings are simple and inexpensive. These pipes have been in
use in France, Spain, and Italy nearly three years, where the demand for them is very
great. The opinions of the press on a public test at the Houses of Partiament, before a
large number of engineers and other scientific gentlemen, may be had, with further particulars, at the office of the company, on application to Mr. Alex. Young, 67, Mark-lane
London, where sample pipes may be obtained for trial.

PATENT LEVER BREAK, FOR RAILWAY WAGONS, doing away with the objectionable break mack. Can be APPLIED to EXISTING STOCK at a TRIFLING EXPENSE. Royalty moderate. Models can be seen at 34, Great George-street, Westminster; and the breaks in action at the works of the Railway Carriage Company; at the Peterboro' Station, on the Eastern Counties Railway; the Rugby Station, London and North-Western Railway; the Cardiff Docks Station, Taff Vale Railway; and at the Works, Oldbury, near Birmingham, where all communications are requested to be sent.

Rugby Station, London and North-Western Railway; the Cardiff Docks Station, Taff Vale Railway; and at the Works, Oldbury, near Birmingham, where all communications are requested to be sent.

The tis a disgrace to Science that any doubt should ever have been thrown by any scientific man upon the nature of this substance, now so well known every where throughout the civilised globe as the Torbane Hill Mineral, with the disas, when under disgrace, of Boghead Gas Coal. Nine-tenths, or even a larger majority, of all scientific men, led by those who are at the bead of their departments of the various physical sciences, are now quite as one on the subject. The States of the Zoliverein and the Prussian Government decided years ago that the substance in question is not coal, and so not liable to Customs' duty. And lately the French suthorities also have pronounced the substance to be bituminous schist to faisms solide on pierre de schisto), and therefore able to pass into France free of the duty leviable upon coal. That the base of this mineral is purely a clay, and not, as happens in the case of all coals, preponderating fixed carbon =charcoal or cinder, is a fact now as well known every where as any physical fact of the kind can be. It is, moreover, well known that the mineral substance in question gives 75 per cent. of a valuable tar or oil, capable, by easy purifying and rectifying processes, of yielding a highly valuable, because most economical, illuminating oil, as well as thicker oil, useful for all sorts of inbricating purposes, solid paraffine, and other important products. That on a clay base equal to one-fourth in weight of the substance, there should be superinduced the enormous proportion of three-fourths, or 75 per cent. of oil—usually called, as it is, paraffine oil—is one of the wonderful facts relating to a mineral which its surrounded by an atmosphere of wonders. The Torbane Hill Mineral, in fine, is one of the most atomishing clascoveries of the day, in an age of physical science, and indeed to all l

Messrs. Connell and Hope, 3, Princes-street, Westminster.
Messrs. Sinson and Traill, Solicitors, Westminster.
Messrs. D. M. and H. Black, W.S., Edinburgh.
Messrs. Morton, Whitehead, and Greig, W.S., Edinburgh.
Messrs. Mackaughton and Finlat, W.S., Edinburgh.
Messrs. Michaughton and Finlat, W.S., Edinburgh.
Messrs. Michaughton and Finlat, W.S., Edinburgh.

SARL AND SONS, 17 and 18, CORNHILL, respectfully SOLICIT a VISIT to their magnificent ESTABLISHMENT. The ground floor is more particularly devoted to the display of FINE GOLD JEWELLERY, GOLD and SILVER WATCHES, and FINE GOLD CHAINS.

The SILVER PLATE DEPARTMENT is in the gallery of the building, and consists of every article requisite for the table and sideboard.

In the magnificent show-rooms is displayed a large and heartiful the statement of the statement of

of every article requisite for the table and sideboard.

In the magnificent show-rooms is displayed a large and beautiful stock of ARGEN-FINE PLATE, the manufacture of which has stood the test of 20 years' experience.

Ball and Sows have also fitted up a separate show-room for the display of DRAWING d DINING ROOM CLOCKS of the most exquisite designs. Books co ings and prices may be had upon application.
SARL AND SONS, 17 and 18, CORNHILL, LONDON.

AUSTRALIA AND NEW ZEALAND WHITE STAR EX-ROYAL MAIL CLIPPERS,

WHITE STAR EX-ROYAL MAIL CLIPPERS,
SALIMS FROM
LIVERPOOL to MELBOURNE on the 1st and 20th of every month.
FOR MELBOURNE. Register. Burthen. To sail.
Captain. Register. Burthen. To sail.
SHALIMAR ALESS 1700 5000 April 25.
EMPLESS OF THE SEAS BRAGG 1600 4750 May 20.
BLUE JACKET WHITE 1899 4750 June 20.
Owing to the tides, the April packet will sail on the 25th.
The clippers of this line are the largest, finest, and handsomest in the trade, and are well knewn for their famous passages, and the unswerving punctuality of their sailing engagements. Fassengers must embark, without fall, on the day previous to advertised date.—For freight or passage apply to the owners, H. T. Wilson and CHAMBERS, 21, Water-street, Liverpool; or to GRINDLAY and Co., 55, Parliament-street; or SETMOUR, PRACOCK, and CO., 116, Fenchurch-street, London.
Willox's Australian and New Zealand hand-books sent for two stamps.

LEICESTER AND CO. (late Leicester, Brache, and Teague),
CONSULTING MINING ENGINEERS AND SURVEYORS, AND GENERAL
MINING AGENTS, MELBOURNE, VICTORIA, PROCURE MINING LEASES on
ELIGIBLE TERMS from the GOVERNMENT of VICTORIA and NEW SOUTH
WALLES, on receipt of a remittance for £200, to cover costs of lease, survey and report,
&c. Mesers. Leicester and Co. OFFER to TAKE the MANAGEMENT of MINING
COMPANIES, and PROVIDE OFFICE ACCOMMODATION, for a percentage on the
For further nearleader.

of the company, farther particulars, apply to Mr. Richard Middleton, Mining Journal office, st-street, London, E.C. remittances must be made through our bankers, the Union Bank of Australia.

ERS.

Their

OLE PRO-n their ame of

7 ft.

beam

ILER.

ft. by

ALL nufac-BARS, afting, INA-does

does
while
o very
hs, up

ND

OPE

res, by

AGE br.the -viz., LITY,

roved r), are

made een in s very fore a

r par-

ONS,

L. y any ough-grace, n, led es, are vern-ble to

o pass ourely a mercoal dean arcoal dean arcoal dean arcoal dean assembled in the arcoal arco

ogists, ermit, ope or erning ted to

fully i floor D and

JEN-

ND

alling dver-

gue), ERAL ES on OUTH

eport, NING on the

ila.

100

NICHOLLS, WILLIAMS, AND CO. have generally a GOOD STOCK of SECOND-HAND MINING MATERIALS FOR SALE, including ironwork for a water-wheel, 40 ft. diameter, 2½ ft. breast. They also MANUFACTURE STEAM ENGINES of every description on the newest principle. Cartings and wrought-iron work made at the shortest notice. Machinery sent to all parts of the world. Steam bollers and chains warranted of the best description.

TO COAL OWNERS AND COKE BURNERS.

MACKWORTH'S PATENT COAL WASHER,
OR PURIFIER.—This MACHINE will EXTRACT the SHALE and ALL
HEAVY IMPURITIES from SMALL COAL at a COST of TWOPENCE PER TON.
—For particulars and references, apply to the makers, A. and T. Fæy, Temple-gate Works,
Bristol; or to Mr. Jos. Rider, Basinghall-street, Leeds.

TO COLLIERY PROPRIETORS.—PATENT TIPPING MACHINES, TO DIMINISH THE LOSS FROM BREAKAGE IN LOADING COAL ON BALLWAY WAGONS, SHIPS, &c.
ARTHUR AND JAMES RIGG, PATENTEES AND MAKERS,
GEORGE STREET, CHESTER.

VENTILATION OF MINES.—ELLIS LEVER INVITES the
ATTENTION OF OWNERS, VIEWERS, and MANAGERS OF COLLIERIES
to his Sently IMPROVED MATERIAL for BRATTICING and MAKING TRAP
DOOD, In the working of coal mines. It is made in every width, and in various qualities, prices of which may be had on application.
For the VENTILATION OF SHAFFS, and for CONVEYING AIR to the various
UNDERGROUND WORKINGS OF MINES, ELLIS LEVER has contrived and introduce
a VERY SERVICEABLE DESCRIPTION OF WATER-PROOF and AIR-PROOF
TUBES, from 1 to 6 ft. diameter, and in unlimited lengths.
Further informationmay be had on application to the manufacturer, ELLIS LEVER,
West Gorton Works, Manchester.

"The Rallway And The Muse."—Leven's Illustrated Year, Book for 1861, price
"The Rallway And The Muse."—Leven's Illustrated Year, Book for 1861, price

"The Railway and the Mine."—Leven's Illustrated Year Book for 1861, price 2s. 6d., may be had in London of Simpkin, Marshall, and Co., and all booksellers throughout the kingdom.

PATENT SAFETY FUSE.—The GREAT EXHIBITION PRIZE
MEDAL was AWARDED to the MANUFACTURERS of the ORIGINAL
SAFETY FUSE, BICKFORD, SMITH DAVEY, and PRYOR who beg to inform Merehants, Mine Agents, Railway Contractors, and all persons engaged in Biasting Operations, that, for the purpose of protecting the public in the use of a genuine article, the PATENT
SAFETY FUSE has now a thread wrought into its centre, which, being patent right, infallibly distinguishes it from all imitations, and ensures the continuity of the gunpowder.
This Fuse is protected by a Second Patent, is manufactured by greatly improved machinery, and may be had of any length and size, and adapted to every climate.

(Address,—BICKFORD, SMITH, DAVEY, and PRYOR, Tuckingmill, Cornwall

SAFETY FUSE.—Messrs, WILLIAM BRUNTON AND CO., PENHALLICK, POOL, near CAMBORNE, CORNWALL, and BRYMBO, near WREXHAM, MANUFACTURERS OF FUSE, of every size and longth, as exhibited in the Great Exhibition of 1851, and supplied to the Royal Arsenal at Woolwich, the Arctic Expedition, and every part of the globe to the Royal Arsenal at Woolwich, the Arctic Expedition, and every part of the globe to the North, W. Baunton and Co. have recently erected a branch manufactory at Brymbo, near Wrexham, where, as at Comwall, they are at all times PREPARED to EXECUTE UNLIMITED ORDERS for SUPPLYING FUSE upon warrant that it will prove equal to, if not better than, any to be procured elsewhere.



For the convenience of their customers and others in the North, W. Bruxrox and Content was a content and the c

with aimost immediately.

To ensure the speedy adoption of this invention, the license fee for a single cage, during
the existence of the patent right, has been limited for the present to £1.

For licenses, reference to parties who use the cage, or further information, application
may be made to ROSERT AYYOUN, S, Fettes-row, Edinburgh.

SAMUEL GRIFFITHS' STAFFORDSHIRE IRON TRADE CIRCULAR. Pablished every Saturday afternoon. Circulation, 7000 per week. Price £1 is, per annum, in advance, post free, being registered for transmission abroad

Price £1 is, per annum, in advance, post free, being registered for transmission abroad at same price.

The Inon Circular gives the state of the Market with respect to Pig and Malleable Iron; the Official Prices of Bars, Hoops, Sheets, and most other kinds of Staffordshire Iron; a Report of the Iron Trade throughout England, Scotland, and Waies; the Scotch Pig Market up to the close of the market on the day of publication; the Closing Price of the Funds and the principal Railway Stocks up to two o'clock the same day; a Monthly Report of the Hong Market, London Discount Market, state of the Foreign Exchanges; the Weekly Return of the Bank of England; the Monthly Return of the Bank of France; a correct Weekly Account of all the Gold Ships at Sea, London bound; likewise an accurate Weekly Return of all the Gold and Specie received during the week; a Report of the Copper Market, with prices of all kinds; a Report of the Tim Market, with present prices, and the same of Lead and Spelter, avery week. The Iron Cinculan likewise contains an account of all Failures, Dissolutions of Partnerships, Changes in Firms, Stoppage of Works, Works Recommending, New Works, or those in course of erection; in a word, the Cinculan Rives every information connected with the Iron Trade which Mr. Gangrams, where well-known connection with it, considers would be useful and acceptable to the Ironmaster, the Merchant, the Shipper, Banker, or any other Buyer of Iron. The same may be said with regard to Copper, Tin, Spelter, and Lead. A Tabular Statement will be published with the Cinculan every three months, showing the number of Furnaces in and out of biast in all the Iron Districts, the quantities of Coal and Ironstone consumed in its production.

Parties wishing to subscribe will send a post-office order, addressed to S. Garpartras, Metal Broker, Welverhampton, which will include the cost post free to end of this year.

RAILWAY WAGONS.—JONATHAN KETLEY, SOHO CARRIAGE AND WAGON WORKS,
NEAR BIRMINGHAM.
ALL DESCRIPTIONS OF RAILWAY WAGONS FOR SALE OR HIRE.
MANUFACTURER OF ALL KINDS OF RAILWAY IRONWORK.

THE RAILWAY CARRIAGE COMPANY,
MANUFACTURERS OF EVERY DESCRIPTION OF RAILWAY PLANT AND
IRONWORK.

NEW AND SECOND-HAND RAILWAY WAGONS ALWAYS IN STOCK
FOR SALE OR HIRE.
LONDON OFFICES,—34, GREAT GEORGE STREET, WESTMINSTER.

THE BIRMINGHAM WAGON COMPANY (LIMITED) HAS
RAILWAY WAGONS FOR HIRE.
Apply to the Secretary, 3, Newhall-street, Birmingham.

THE NORTH CENTRAL WAGON COMPANY,
ROTHERHAM.
OFFICES,- HOWARD STREET.
DIRECTORS.
GEORGE HAY WOOD, of Rotherham, ironfounder (Chairman).
CHARLES ATKINSON, of Cra't tree Lodge, Sheffield, Merchant.
ROBT. C. HOYLE, Eq., Aughton Hall, Rotherham.
HENRY KING SPARK, Eq., of Greenbank, Darlington.
SAMUEL R. SANDERS, of Parkgate fromworks, Rotherham.
WILSON WATERFALL, of Rotherham, Banker.
BANKERS—The Sheffield Banking Company.
SOLICITORS—Messrs. Hoyle and Son, Rotherham.
SECRETARY—Mr. John Barras.

PERMANENT WAY RAILS for sidings, &c., COLLIERY RAILS, CONTRACTORS' RAILS, EARTH WAGONS, and CONTRACTORS' MATERIALS FOR SALE, by ROBERT WRIGHTSON, Newport, Monmouthshire.

JAMES RUSSELL AND SONS, CROWN TUBE WORKS, WEDNESBURY, STAFFORDSHIRE.
WAREHOUSE,—\$1, UPPER GROUND STREET, BLACKFRIARS, LONDON, S. The Original Inventors and First Manufacturers of the Patent Wrought-Iron Tubes for Gas, Steam, Water, &c. Enamelled Tubing, and Glazed ditto. Russell and Howell's Homogeneous Tubes. And agents for G. F. Muntz's Solid Brass Tubes. Every variety of fittings. Trade mark, &

LOYD AND LLOYD, ALBION TUBE WORKS,
BIRMINGHAM,
MANUFACTURERS OF PATENT LAP-WELDED IRON TUBES, FOR
LOCOMOTIVE, MARINE, AND STATIONARY BOILERS.
IMPROVED H MOGENEOUS METAL TUBES.
ALL DESCRIPTIONS OF TUBES AND FITTINGS FOR GAS, STEAM AND
WATER, PLAIN, GALVANISED AND ENABLILED.
GUN-METAL STEAM GLAND COCKS, WATER GAUGES, &c.



Wardsend Steel Works, LONDON OFFICE, 21, BOW LANE, CANNON STREET WEST, E.C., Where all communications are to be address SHEFFIELD.

CHORTRIDGE, HOWELL, AND CO., HARTFORD STEEL WORKS, SHEFFIELD, SOLE MANUFACTURERS OF HOWELL'S PATENT HOMOGENEOUS METAL PLATES for BOILERS, LOCOMOTIVE FIRE BOXES, and TUBES, COMBINING the STRENGTH OF STEEL WIth the MALLEABILITY OF COPPER. RUSSELL AND HOWELL'S PATENT CAST STEEL TUBES. MECONNELL'S PATENT HOLLOW RAILWAY AXLES.—For prices and terms, apply to Suorthidge, Howell, and Co., Hartford Steel Works, Sheffield; or Massra, Harvey and Co., 12, Haymarket, London.

ONDIE'S PATENT STEAM HAMMERS, from 5 cwts. to 7 tons, suitable for jobbing forges, puddling forges, and the smiths' shops of engineers, shipbuilders, &c. Pressure of steam required, 25 lbs.

BAIN AND WYLIE (Successors to John Condie).

WIRE-ROPE TESTING.

	THE ABOVE ROP	ES ARE FOR COLLI	ERY USE.						
Size. Inches.	Hutchings and Co.'s wire- rope for ships' rigging. Tested Feb. 27, 1861.	Newall and Co.'s Test of Oct. 29, 1860.	Garnock, Bibby, and Co Test, Oct. 29, 1860.						
2 214 336 346 346 4 446	5 tons 15 cwts. 11 " 14 " 16 " 10 " 22 " 8 " 23 " 10 " 29 " 10 " 37 " 15 "	7 tons 15 cwts.	8 tons 16 cwts. 18 ,, 5 ,, 26 ,, 10 ,,						

26 " 10 " N.B.—The 2, 3%, and 4 in. ropes were the actual sizes tested. The remaining sizes and strains are comparative.

The above tests certified by Mr. M'Donald, the Superintendent of the Corporation Testing Works, Liverpool.

PUBLIC TEST of WIRE ROPE at the CORPORATION

DUBLIC TEST of WIRE ROPE at the CORPORATION
TESTING WORKS, LIVERPOOL, 29TH OCTOBER, 1880.

Instituted by Mesers. R. S. Newall and Co.

[From the Missing Journal of November 10th, 1860.]

Garnook, Bibby, and Co.

""" 18 5 ""

"" 18 5 ""

"" 18 15 ""

"" 18 15 ""

"" 19 15 ""

"" 19 15 ""

"" 19 15 ""

"" 10 ""

"" 15 ""

"" 15 ""

"" 15 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 10 ""

"" 1

BEST CHARCOAL IRON AND STEEL WIRE ROPES,
FOR COLLIERIES, MINES, &c.
COPPER ROPE LIGHTNING CONDUCTORS, with fittings complete.
WEIGHING MACHINES and WEIGH BRIDGES.
GALVANISED CORRUGATED IRON ROOFS, and IRON BUILDINGS.
Reduced price list, with estimate and designs, forwarded on application to
FRANCIS MORTON AND CO.,
MANUFACTORY AND HEAD OFFICES,—LIVERPOOL.
LONDON OFFICE,—19, PARLIAMENT STREET, WESTMINSTER.

A L L AND WELLS, PATENTEES AND MANUFACTURERS OF SUBMARINE TELEGRAPH CORES, CABLES &c., TELEGRAPH CONDUCTORS INSULATED with INDIA RUBBER at 45 pe mile and upwards. CORES WARRANTED to STAND the USUAL TEST for INSULATION. Further particulars as to price of cores, cables, &c., can be had on application at 60, Aldermanbury, City, E.C.; and Steam Mills, Mansfield-street, Borough-road Southwark, S.E.

Copper wire covered with silk, cotton, or any other material, to order.

EBONITE !-TELEGRAPH INSULATORS made of EBONITE.

DENTITE in SHEET, TUBES, and RODS, or manufactured into various articles of utility and ornament, being calculated to supersede metal, hard woods, and ivory at present in use.

INDIA RUBBER.—INDIA RUBBER STEAM PACKING in ROPE, SHEET, RINGS, &c., intended for railway and machinery appliances, unvulcanised and vulcanised.

S. W. SHLVER AND CO., 3 and 4, BISHOPSGATE WITHIN, E.C.

(Opposite the London Tavern).

WORKS—SILVERTOWN, ESSEX, opposite Her Majesty's Dockyards, Woolwich.

A S A Y O F F I C E A N D L A B O R A T O R I E of DUNNING'S ALLEY, BISHOPSGATE STREET WITHOUT, LONDON. Conducted by Mirchell, and Richard (late John Mitchell, F.C.S., Author of Manual of Practical Assaying, Meallurgical Papers, &c.).

Assays and Analyses of every description performed as usual. Special Instruction Assaying and Analyses. Consultations in every branch of Metallurgical and Manufa turing Chemistry.

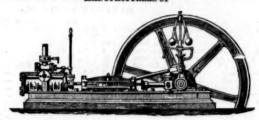
Assistance rendered to intending Patentoes, &c.

For amount of fees, apply to the office, as above, LABORATORIES

RAILWAY WAGONS.—WILLIAM A. ADAMS AND CO., MIDLAND WORKS, BIRMINGHAM.

BEOAD AND NARROW GAUGE COAL AND IRONSTONE WAGONS, 1/2

AND LAURENCE FOUNTNEY PLACE, CANNON STREET, LONDON MANUFACTURERS OF



HIGH PRESSURE STEAM ENGINES, from 2½ to 30 horse power, and upwards, adapted for MILLS, AGRICULTURAL, MINING, and GENERAL PURPOSES. The following sizes are ready for immediate delivery, and may be seen at any time at their London depôt:—

ONE 5 in. cylinder, 10 in. stroke.

ONE 16 in. cylinder, 18 in. stroke.

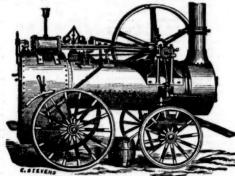
ONE 10 in. cylinder, 18 in. stroke.

ONE 14 in. cylinder, 24 in. stroke.

ONE 14 in. cylinder, 24 in. stroke.

Friers and full particulars sent on application.

PORTABLE STEAM ENGINE COMPANY (LIMITED).
CITY OFFICE, 5, ADAM'S COURT, OLD BEOAD STREET.
DEPOT,—92, BLACKFRIARS ROAD.



PATENT PORTABLE STEAM ENGINE, WITH REVERSING GEAR.

PORTABLE STEAM ENGINES LENT ON HIRE, from 4 to 25 horse power.

Every information can be obtained on application to Mr. DUNSFORD, at the City office; to Mr. CRESSWELL, the company's engineer, at the depôt.

or to Mr. Cresswell, the company's engineer, at the depot.

TO BRASSFOUNDERS, ENGINEERS, REFINERS, &c.—
The PATENT PLUMBAGO CRUCIBLE COMPANY beg to CALL the ATTENTION of all users and shippers of melting pots to the GREAT SUPERIORITY of the PATENT CRUCIBLES, which have been used during the last three years by some of the largest melters in Engiand and abroad. In addition to their capabilities of melting an average of from 35 to 40 pourings, they are unaffected by change of temperature, never crack, but can be used till worn out, requiring only one annealing for several days' work, and become heated much more rapidly than ordinary pots, EFFECTING thereby a SAVING of more than FIFTY PER CENT. In time, labour, fuel, and waste. The Patent Plumbago Crucible Company also mandacture and import clay crucibles, muffles, portable furnaces, sublimate pans and covers, glass pots, all descriptions of fire-standing goods, and every requisite for the assayer and dentist.

Also, sole proprietors of fine POWDERED PURE FLOUR PLUMBAGO, which they can confidently recommend for anti-friction purposes, being an impaipable powder, and warranted perfectly free from grix and any impurity. For ordinary poilshing purposes it will be found superior to any of the black leads offered. Price, £27 10s, per ton; 30s. per cwt. Samples of 28 lbs. forwarded on receipt of 8s. Packages free.

For Lists, Testimonials, &c., apply to the Battersea Works, London, S.W.

rages tree.
For Lists, Testimonials, &c., apply to the Battersea Works, London, S.W.

For Lists, Testimonials, &c., apply to the Battersea Works, London, S.W.

INCRUSTATION OF STEAM BOILERS.—EASTON'S
PATENT BOILER FLUID EFFECTUALLY REMOVES and PREVENTS INCRUSTATION in STEAM BOILERS, WITHOUT INJURY to the METAL, with GREAT SAVING in FUEL, and with LESS LIABILITY to ACCIDENT from EXPLOSION. It is used by Her Majesty's Steam Storeships, Woolwi's Arsenal, Honourable Corporation of Trinity House, Tower of London, by the principal Steam Packet Companies of London, Liverpool, Southampton, Hull, &c., and by engineers and manufacturers throughout the country. Testimonials from eminent engineers, boiler makers, and manufacturers, with full particulars, will be forwarded on application to P. S. EASTON and S. SERINGIFLD, sole manufacturers and patentees, Nos. 37, 38, and 39, Wapping-wall, London, E. AGENTS:—Liverpool, Mr. J. McInnes; Hull, Meesrs. A. H. Fleming and Co.; Southampton, Mr. J. Clark; Birmingham, Mr. Adam Dixon; Belfast, Mr. W. T. Matier, C.E.; No.tingham, Mr. G. D. Hughes; Glasgow, Mr. W. Mutrie.—Foreign: Rio de Janeiro, Messrs. Miers Brothers and Maylor; Odessa and South Russla, Mr. W. Baxter; Hamburg, M. August Möller.

Mr. Easton has readered steam navigation a decided service. If his fluid only effects a part of what is said in his testimonials, then it is worth a trial by every steamship owner in the world.—Mitchell's Steam Shipping Journal, Dec. 29, 1860.

Messrs. Easton and Springfield have patented and are now manufacturing a fluid which, although it has been subjected to the severest tests, appears to give universal satisfaction.—Mining Journal, Dec. 22, 1860.

The most effectual, economical, and simple preventive of incrustation known.—Commercial Daily List.

HALEY'S PATENT LIFTING JACK,

MANUPACTURED BY THE INVENTOR, JOSEPH HALEY,

ALBION STREET, GATTHORN, MANCHESTER.

SCREW JACKS, SHIP JACKS.

SLIDE AND CENTRE LATHES, PLANING, SHAPING, BORING, DRILLING SCREWING, WHEEL CUTTING, AND OTHER MACHINES.

RIVET MAKING MACHINES.

A S T I E R'S P A T E N T C H A I N P U M P,
APPLICABLE TO ALL KINDS OF MINES, DRAINAGE, WELLS, &cc.

J. U. BANTIER begs to call the attention of proprietors of mines, engineers, architects,
armers, and the public in general, to his new pump; the cheapest and most efficient ever
attroduced to public notice. The principle of this new pump is simple and effective, and

armers, and the public in general, to his new pump, the cheapest and most efficient ever ntroduced to public notice. The principle of this new pump is simple and effective, and its action is so arranged that accidental breakage is impossible. It occupies less space than any other kind of pump in use, does not interfere with the working of the shafts, and unites lightness with a degree of durability almost imperishable. By means of this hydraulic machine waster can be raised economically from wells of any depth; it can be worked either by steam-engine or any other motive power, by quick or slow motion. The following statement presents some of the results obtained by this hydraulic machine, as daily demonstrated by use:—

1.—It utilises from 90 to 92 per cent. of the motive power.

2.—Its price and expense of installation is 75 per cent. less than the usual pumps employed for mining purposes.

3.—It occupies a very small space.

4.—It raises water from any depth with the same facility and economy.

5.—It raises with the water, and without the alignitest injury to the apparatus sand, mud, wood, stone, and every object of a smaller diameter than its tube.

6.—It is easily removed, and requires no cleaning or attention.

To be seen daily at W. P. Warner's, whose and spirit merchant, Welsh Harp, Edgware-road, near Cricklewood. References of the highest character will be given.

J. U. Basties, sole manufacturer, will CONTRACT to ERECT his PATENT PUMP at HIS OWN EXPENSE, and will GUARANTEE IT FOR ONE YEAR, or will GRANT LICENSES to manufacturers, mining proprietors and others, for the USE of his INVENTION.

OFFICES, 19. MANCHESTER BUILDINGS. WESTMINSTER, LONDON.

OFFICES, 19, MANCHESTER BUILDINGS, WESTMINSTER, LONDON. London, Oct. 10, 1859. Hours, from Ten till Four. J. U. BASTIER, C.E.

A BOON TO NERVOUS SUFFERERS.

TWENTY THOUSAND COPIES OF A MEDICAL BOOK for gratuitous circulation. HENRY SMITH, Doctor of Medicine of the Royal University of Jens, &c., who has devoted 15 years to the study and Treatment of Nervous Debility, Loss of Memory, and indigestion, will send free, for the benefit of Nervous Sufferers, a copy of the NEW MEDICAL GUIDE, containing his highly successful mode of treatment, with necessary instructions by which sufferers may obtain a cure. Post ree on receipt of a stamped directed envelope, from the author's residence, \$, Barton-creptent, Taylstock-square, London, W.C.

THE MINING SHARE LIST.	PROGRESSIVE MINES.	Shares. Mines. Paid. Last Pr. Bus. done. Last Call. 848 N. Troskerby (cop.), St. Agnes 10 3 9 23 25 26 Dec. 1860 6000 N.Wh. Basset (cop.,tin)[S.E.] 1 8 0 6 5½ 6 Feb. 1861
DIVIDEND MINES Shares. Mines. Paid. Last Pr. Business. Dividends Per Share. Last Paid.	Shares. Mines. Paid. Last Pr. Bus. done. Last Call.	1024 North Wheal Basy (cop., &c.) 8 10 5 5% Feb. 1861 1122 North Wheal Crofty [S.E.] . 8 19 8 8 Jan. 1861 4000 N. Wh. Exmouth (cop., lead) 2 2 6 1 16s. 18s Jan. 1861
400 Bedford United (copper), Tavistockt 2 6 8. 5 1 5 5 5 5 5 1 2 3 6 0 4 0 - Mar. 1861 240 Bosecan (tin), St. Just 2	10000 Angarrack (copper), Phillack. 1 1 6. 1 1/2 June, 1850 8600 Ashburton Consols (copper)	5000 N. Wh. Providence (tin, cop.) 0 8 6 1%
200 Brynford Hall (lead), Flintshire 12 10 0 26 14 0 0 2 10 0-Oct. 1866	10000 Bampfylde (copper), Davou. 0 15 0. 4	4000 N. Wrey (ld.), St. Ive [L.£2]. 0 7 0 % Jan. 1881 4096 Okel Tor (lead), Calstock 5 1 6 24 Sept. 1860
35000 Ditto ditto (stock)100 0 0 24 1 per cent, — Half-yrly 1055 Craddock Moor (copper), St. Clear 8 0 0 27 25 27 5 3 0 0 4 0—Mar. 1861	250 Berriow Consols (icad) 17 16 0 8	200 Pant-v-Pwydu(ld.) Fiintshire 10 (10, 20 as asSept. 1880
128 Cwmystwith (lead), Cardiganante 300 0 0 340 187 0 0	2280 Boscundle (tin.cp.),St.Austell 6 15 0. 4	5000 Pendeen Consols, St. Just 3 12 0. 514 5 514 Aug. 1860 1000 Pengenna (Id., sil.), St. Kew. 4 0 0. 634 Jan. 1860 512 Penhaldara (lead)
355 Dolcoath (copper, tin), Camborns*128 17 6 500470 490610 10 09 0 0—Feb. 1861 513 East Basset (cop.), Radruth [8.E.]29 10 0 1071410214. 105	123 Bosweddan and Wheal Castle 32 0 0	0 5000 Penhalis (tin), St. Ann's 1 4 0 5Jan. 1860 4800 Penhauger (lead), Menheniot. 0 7 6 4
2048 East Wheal Lovell (till), Wendron . 2 10 0. —	3000 Brookwood 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4000 Polgear Mines, Wendron 0 15 0 %
Some Frank Mills (lead), Devon 3 18 6	1200 Buller and Basset Unit. (cop.) 3 2 6 2	1 6400 Prideaux Wood (tin, cop.) 3 10 0 . 108
5908 Great Wh. Vor (tin, ep.), Helaton [S.E.] 40 0 0 7	1000 Camborne Consols (copper) 16 0 0 8	
160 Levant (copper, tin), 8t. Just) 1000 Cardigan Consols (L. £10) . 7 0 0 . 9	0 10000 River Tamar Copper [L.] 0 10 0 %
2 2 2 2 2 3 3 4 4 5 5 5 5 5 5 5 5	1056 Carvannall (cop.), Gwennap. 21 11 7 3	0 9000 Round Hill (cop., id., , salop. 2 5 5 . 25
6000 North Great Work, Breage 1 3 0. 414. 0 2 0. 0 2 0. May, 186 5000 Orsedd (lead), Flintshire 0 0 8. 114. 0 6 6. 0 0 9. Mar, 186 6400 Par Consols (copp.), St. Blazey [S.E.]. 1 2 6. 10. 9 10 35 19 6. 0 5 0. Mar. 186 200 Parys Mines (copper), Anglesey [L.]. 50 0 0. 5 0 0. 5 0 0. Jan. 186 200 Phanix (copper, tin), Linkinghorne100 0 0. 435 394 10 0. 60 0 0. Nov. 186	2500 Cefn Clican (lead), Flintshire. 1 5 0 14	1 012 South Basset (cop.), Gwennap 11 U S., 15 ., 12 10 1001
1772 POINTTO (UII), 5t. Aginos	0 3135 Cood Mawr Pool (lead) [L.]. 4 3 0 4July, 186 2450 Cook's Kitchen (cop.) Illogan 17 0 9 16½15 16May, 186 1 5000 Cornubia (tin), Roche 0 10 0 16s15s. 16sFeb. 186	10 6400 So. Buller & W. Penstruthal. 0 12 0 1\(\frac{1}{2} \) \\ \frac{1}{2} \). 1850 \\ \frac{1}{2} \) 4006 S. Caradon Wh. Hooper (cop.) 2 0 6 1 \\ \frac{1}{2} \). \\ \frac{1}{2} \] 16 000 So. Cara Brea (cop.) [S.E.] 4 16 0 3\(\frac{1}{4} \). 3 3\(\frac{1}{2} \). \\ \frac{1}{2} \] an. 1861
16 Rhosesmor	1 30000 Craven Moor (ld.), Yorkshire. 0 10 0 4 4s. 5s No call.	12 2283 Sou. Crenver (cop.), Crowan. 9 13 6. 3 14
280 Spearne Moor (tin, copper), St. Just 31 17 9 30	1 2000 Crowlwin (lead), Lianidices 1 10 0. 1 % 1 Noc. all. 1 2000 Crowlwin (lead), Lianidices 1 10 0. 1 % 1 Noc. 181 1 6000 Crowladie (cop.), Tavistock . 0 11 0. 3 Nov. 181 1 6000 Cuddra (cop., in), St. Austell 1 10 0. 134.134 174 Feb. 186	1000 S.Doicoath & Carnarting Con. 2 2 0. 4
579 Trelyon Consols (tin.) St. Ives	0 7000 Cwm Aton (cp.), Festi. [L.£1] 0 19 0 —	d. 1009 South Gornand
900 Trumpet Consols (tin), near Helston. 57 10 0. 100 46 4 0. 0 4 0Feb. 188 1024 Wendron Consols (tin), Wendron 11 13 10. 18 16 18 8 15 0. 1 0 0Jan. 186 600 West Basset (copper), Illogan [S.E.]. 1 10 0. 18 21 2 0. 0 10 0Mar. 186 60 West Burton Gill (lead), Yorkshire 50 0 0 11 10 0. 3 0 0Oct. 18 1024 West Caradon (cop.), Liskeard [S.E.] 8 6 0. 76½. 74 76 94 11 3. 2 10 0Mar. 186	1 5000 Devon Great Wheal Ellen . 2 0 0	1024 South Treavent, Gwennap
266 West Damsel (copper), Gwennap 37 0 0 62 45 0 0 1 0 0—May, 186 6400 West Fowey Consols (tin and copper), 7 10 0 5 0 12 0 0 3 0—Jan. 186 6400 WW 5 6400 (con) Camperage S 1 2 47 10 0. 255	10 1000 Durio (un)s Leiant . 6 12 0. 6	51 1105 So. Wh. Crofty (cop.), Illogan 2 8 10. 4 Nov. 1869 51 1024 S. Wh. Ellen (cp.), St. Agness 9 10 8 1 Nov. 1859 58 1000 South Wh. Kitty (tin), Lelant 0 10 0 1\dots Mar. 1861 51 1024 S. Wh. Lovel (tin), Wendron 0 17 0 2\dots Mar. 1861
286 Wheal Buller (cop.), Redruth* [S.E.], 5 0 0., 125 115 120 927 0 0., 2 0 0—Mar. 186 600 Wheal Ciliford (cop.), Gwennap [S.E.] 185 84 10 0., 4 0 0—Feb. 186 9000 Wheal Falmonth and Sperries 2 5 0. 8 0 10 0., 0 10 0.—Feb. 186	4096 East Aifred Consols (copper). 3 9 9 1\(\frac{1}{2}\). 1 1\(\frac{1}{2}\). Feb. 18 1 6000 East Budnick and Mount 0 10 0, 11s10s. 11s10s. 11s10s. 11s10s. 11s10s. 11s10s. 11s10s. 11s10s1	
512 Wheal Jane (silver-lead), Kea 3 10 0., 18	0 4000 East Devon Gf. Consols (cop.) 0 9 6 3 3 5 Feb. 18 18 6000 East Fowey Consols (copper) 1 2 0 1 1 5 3 18 18 18 18 18 18 18	21 1 1094 St Twee Wheel Allen (tin) 4 10 0 5 4 5 Feb. 1001
4800 Wheal Ludcott (lead), St. Ive	10 4000 E. Releath (tin,cop.), Wendron 0 1 0. 58	60 6000 Tolcarne (cop.), Camborne 1 5 6 3 Jan. 1861 60 2000 Trefulack Uni.(tin.), St.Enoder 1 10 0 134
1040 Wh.Trelawny(silid.),Liskeard[S.E.]† 4 7 0. 12 . 12 13 . 43 15 0. 1 0 0—Oct. 18 5000 Wicklow (copper) [L.], Wicklow 5 0 0 71½ 70½ 41 17 6. 2 12 6—Mar. 18 [* Dividends paid every two months.]	256 EastTolgus(copper), Redruth 58 0 0 40 Feb. 18 11 1000 E. Trefusis (cop.), Gwennap. 6 18 10 . 334 314 314 Dec. 18 10	61 2000 Tregullow Consols (tin, cop.), 0 5 0 1% Nov. 1899 5000 Treloweth (copper), St. Erth. 5 18 8 4 Dec. 1899 61 1924 Trencrom (tin), Uny Lelant. 9 10 0 4 Mar. 1861 8000 Tretoil (copper, tin) 2 7 6 14 Jan. 1861
MINES WITH DIVIDENDS IN ABEYANCE. 700 Aberdovey (silver-lead), Merioneth 1 10 0 30 0 10 0 0 10 0 Mar. 18 5190 Altred Consols (cop.), Phillack [S.E.]. 2 17 1 3 2% 3% 20 3 0 0 2 6—April, 18	6000 E.Wh. Eilen (silid.), St. Ive 0 1 0. 36. July, 18 4000 E.Wh. Bussell, Tavis, [S.E.] 7 4 0. 7 . 63 7 Nov. 18 5700 Exmouth (silid.), Christow. 5 8 0. 8 Mar. 18	80 5600 Trevenen and Tremenheere 5 9 0. 2½ Feb. 1861 59 1024 Treveole, Crowan, Cornwall 20 11 2 74 5½ 5½ Mar. 1861 61 4096 Treweatha (silid.), Menhen. 4 6 0 Feb. 1861 Feb. 1861
1624 Balleswidden (tin), St. Just 11 5 0 12	54 5000 Furzedon(cp.),Okeham [L.30s.] 1 5 0 214	80 4000 Trumpet Unit. (tin), Wendron 0 7 6., 128 8s. 10s Jan. 1861 80 3000 Trum Head (id., cop.) [L. £1]. 0 12 0 34 Sept. 1860 81 1024 Twingham Consols (tin) 1 10 0., 24 Feb. 1860
200 Cefin Gwm Bryyno (lead), Cardiganab. 33 0 0 0 5 0 0 2 0 0 Mar. 18 2500 Central Minera (lead) [L. £5]	59 4000 Gawton (copper), Tavistock 1 10 0 34 55. 18 57 6000 Gernick (copper), Crowan 0 9 0 34 38 34 Feb. 18 57 4892 Goginan (slivld.) [1900 £1244. 2992 £11 2 July. 18	661 1250 Vale of Ffrith (lead) [L. £2]. 0 5 0 —1½ 1½ April, 1861 660 1000 Wirtnous Lady (cop.), Tavist. 1 0 0 1½ Feb. 1860 660 1000 Waenlas(d.), Denbigh, [L. £10] 8 0 0 5 Aug. 1869
672 Ding Dong (tin), Gulval		
1024 East Wheal Margaret (tin, copper)	88 10000 Great Moelwyn Slate [L. £5] 1 10 0 Mar. 18	16 West Denbigh (id.), Denbigh. 35 0 0 50 Oct. 1860 361 30000 W. Devon Con. (cop.), [L.£1] 0 7 6 Feb. 1860
5000 Kally Bray (lead, copper), Callington. 4 1 6. 23	66 10000 Great Treveddoe (copper) . 0 13 0 . 3	6000 W. Polmenritin.co. 1.St. Austeil 1 0 0
5000 Lewis Mines (tin, copper), St. Erth 6 9 11. 8s 7s. 8s 0 10 0 0 10 0 10 0 10 0 10 0 10 0 20 0 10 0 10 0 20 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 11 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 0 0 10 0 10 0 0 0 0 0 0 0 0 0 0	58 6000 Gt.Wh. Busy (cop.,tin), Ken. 14 0 0	361 1056 West Stray Park (cop.) .Camb. 7 2 6. 5 Oct. 1860
1024 Rosewarne and Heriand United 10 10 0	185 8634 Gwydyr Park Con., Llanrwst 0 14 9., 98 Jan. 18	5120 West Trividden (cop., tin) 0 15 0 225
120 Trethellan (cop.), Gwennap, Cornwall. 15 10 0. 15 403 12 6. 2 10 0—April, 1 400 United Mines (copper), Gwennap 45 0 0. 75 35 40 80 80 0. 2 10 0—April, 1 2000 Valeof Towy (lead), Carmarthen [S.E.] 0 13 6. 92, 82, 92, 0 5 9. 0 1 0—April, 1 1024 West Providence (tin), St. Erth 14 15 0. 34 33 1 9. 0 10 0—April, 1 240 Wheal Bal (tin), St. Just 15 0 0. 16 4 0 0. 1 0 0—Feb. 1	neo 7219 Hawkmoor(tin.con.)Calstock 9 17 6 1 Mar. 1	861 10000 West Wheal Jane (tin, &c.) 2 12 6 %
		860 2048 Wh. Agnes (silvid), St. Kew —
1024 Wheal Grylls (tin), Perranuthnoe 1 4 0 4 4 3 3 3 4 112 0 0 7 6—Nov. 1 430 Wheal Lovel (tin), Wendron 33 0 0 7 31 0 0 1 0 0—Sept. 11 1024 Wheal Margery (tin, copper) 15 3 0 8 84 0 10 0 0 10 0—May, 1 396 Wheal Seton (tin, copper), Camborne. 58 10 0 90 82 4 87 11 16 0 1 10 0—Dec. 11 1022 Wheal Ternapro (tin, cop.), Gwinear. 12 2 6 5 10 2 6 0 7 6—Jan. 1 4096 Wheal Wrey Consols (lead), St. Ive. 3 1 6 4 2 12 6 0 2 6—Dec. 1	1019 Leeds & St. Aubyn (tin, cop.) 15 12 3	861 6140 Wh. Arthur (cop.), Calstock. 3 9 0 4s 4s. 6s Mar. 1861 1000 Wheal Basset and Grylls (tin) 4 0 0 614 Mar. 1861
FOREIGN MINES.	4968 Mandlin Mines [2484 £6, 2484 £1 pd.]. 2½. 4549 Merilyn (lead), Flint 3 9 6, 238. Jan. 1: 22000 Merryfield (lead) [L.]	5120 Wheal Cupid (cop.), Redruth. 3 13 0 176 176 Feb. 1861 512 Wh.Damsel(cp.,tin), Gwennap 20 0 0 16 15 17 Feb. 1861
10000 Copiapo Mining Company, Chiff [8.E.] 16 0 0. 10 8 10 6 8 0. 0 5 0—Jan. 1 18000 East Indian Coal, Calcutta [L.] 10 0 0. 10 7½ per cont. — Yearl 12 6. 0 5 0—Feb. 1 1 2 6. 0 5 0—Feb. 1	861 6599 Molland (cop.), S. Moulton. 2 6 0. 28 Jan. 1	889 720 Wheal Franco, near Tavistock 22 10 0. 5 4
88000 Kapunda Mining Co., Australia [S.E.] 1 0 0. 24. 24. 24. 0 6 0. 0 2 0—Dec. 1 15000 Linares (d.), Fozo Ancho, Spain [S.E.] 3 0 0. 24. 9 94. 8 2 10. 0 6 8—Mar. 1 10000 Lusitanian (of Portugal) [S.E.] 2 0 0. 24. 2 24. 0 17 3. 0 2 6—Aug. 1 100815 Mariquita and New Granada [S.E.] 1 0 0. 4. 44. 0 9 6. 0 1 6—July, 1	860 1024 Nangiles (tin, copper), Kea. 3 0 0 . 6	861 512 Wheal Hendra (tin), Breage., 1 2 6,. 24Jan. 1861
100000 Port Phillip (gold), Clanes [S.E.] . 1 0 0 . 4 4 0 3 0 . 0 1 0 - Jan. 1 11000 St. John del Rey [L.], Brazil [S.E.] . 15 0 0 . 314 . 304 514 40 15 0 . 2 0 0 - Dec. 1 20000 West Canada Mining Company [L.] . 1 0 0 . 14 . 0 2 0 . 0 2 0 . 0 2 0 - June, 1	860 6000 New Birch Tor & Vitifer Cons. 1 6 6. 24	860 100 Wheal Louisa (cop.), Redruth. 10 0 0., 120 No call. 880 5640 Wh. Mary Emma(tin) Lydford 0 9 6
FOREIGN MINES WITH DIVIDENDS IN ABEYANCE. 10000 Alternand QuenangenUni.(cop.)[L.£6] 4 10 0 3 4 5 0 0 15 0 -Nov. 1 10000 Gt Barrier Land Min. &c. W. Ze. L. £5] 3 10 0 3 4 5 0 0 15 o -Nov. 1 10000 Gt Barrier Land Min. &c. W. Ze. L. £5] 3 10 0 3 4 5 0 0 15 o -Nov. 1	6000 New Treleigh Cons., Redruth 1 8 0. 42s. 2 234 Feb. 1 88 2000 New Wheal Clifford (copper) 6 6 0. 6s Mar. 1 88 6144 New Wheal Francis, Chywan. 0 13 6. 11s 9s. 11s Feb. 1	861 256 Wheal Polmear, St. Austell. 17 10 0.180 48
10000 Pontgibaud (sillead), France (S.E.) 20 0 0 6 1 0 0 1 0 0 June, 1 45174 Unit. Mexican(sil.), Mexico(S.E.) Av. 28 5 0 5 1 6 2 1 16 5 0 4 0 - Feb. 1 NON-DIVIDEND FOREIGN MINES.	855 400 New Wh. Seton (cop.), Camb. 12 0 0. 50 . 47 49 Nov. 1 2500 New Wh. Vor & E. Wh. Metal 8 0 0. — Jan. 1 2500 N.Wh. Vaddon (cop.), Marazion 0 13 0. 1 14 Dec. 1	861 1000 Wh. Prosper (cp., tin), Breage 6 0 0. 3
	6000 Nidderdale(id.), Yorks, [L. £1] 0 15 0. 36. 34. Jan. 1 20 N. Budnick (tin, id.), Perranz. 1 10 0. 40 No call. 888 4500 No. Budnick and West Mount 0 5 0. 36 No. 610. 889 1024 North Buller (cop.), Redruth. 20 2 6. 3 3 24. 3 Feb. 1	4096 Wheal Sidney (tin), Plympton 3 4 1. 11. Jan. 1881 2048 Wh.Sithney & Carmmeal Uni. 4 10 0. 3 . 21/4 3 . Mar. 1881 1024 Wheal St. Andrew (conner). 5 0 0. 5 . Jan. 1890
Shares. Mines. Mines. Paid. Last Pr. Bus. done. Last Composition	889 6000 Nor. Clifford (cop.), Gwennap 0 5 0 .	. 560 6000 Wheal Tehidy (cop.), Illogan 5 5 0
75000 Dun Mountain (copper), New Zealand [L.] [S.E.] 1 0 0 % % % .Fullyp 30000 East Kongsberg Native Silver Mining Co. of Norway [L. £5] 0 10 0 12sFeb. 30000 Elieralie and Bardowic, Jamaica 0 18 0 11/2 July, 1 3000 Engish and Canadian Mining Company [L.] 5 0 0 .Fullyp Sealon [L. L.] S. LFullyp 35000 Engish and Canadian Mining Company [L.] 5 0 0 .Fullyp 35000	859 8000 N. Hallenbeagie (tin, cp.) [L.] 0 5 0. 24. 224 Sept. 1 aid. 2000 North Jane (tin, silver-lead). 2 10 0. 24 Mar. 1	1861 1024 Wheal Vyvyan (copper) 0 10 0. — Dec. 1860
25000 Fortuna (lead), Spain [L.] [S.E.] 2 0 0 2½ 2½ 2½ 1½ Fullyp	aid. 10000 North Minera (lead) [L.] 1 0 0 . 1% 37g. 38s April. 1	1881 1024 Wheal Vyvan (copper) 0 10 0
20000 Lagunazo (sulphur, copper), Portugal [L. £1] 0 7 6 1/4 Mar. 60000 New Granda (gold), South America [S.E.] 1 0 0 1/4 Fully p 10000 New Grand Duchy of Badan (silver-lead), near Freiburg 1 0 0 1 1 New. 60000 North Rhine Copper of South Amstralis [L. £1] [S.E.] 0 12 6 1/4 June, 10000 Pachuca Silver Musing Company Market (L. £1)	860 Those mines with [S. E.] appended have been admitted on the S	1860 4096 Wrey Consols, Buckhatleigh. 0 8 0. 34
18000 Scottish Australian Mining Company, Maxico Lt. 21	1858 1860 • • Our object being to make the Share List correct, we earnestly call 1860 tion which may from time to time come under their notice. To	upon all who have the power, to aid us, by forwarding any alterations or corresponded to the second of the second
25000 Victor Emanuel, Val d'Ossoia, Piedmont [L.] 1 0 0 11	809	every description, forwarded to our office, will meet ready attention. The proprietors), at their office, No. 26, Fluer Street, where all community to be addressed,—April 6, 1861.
The state of the s	essential and radiometer	A MARINE PART OF THE PARTY OF T